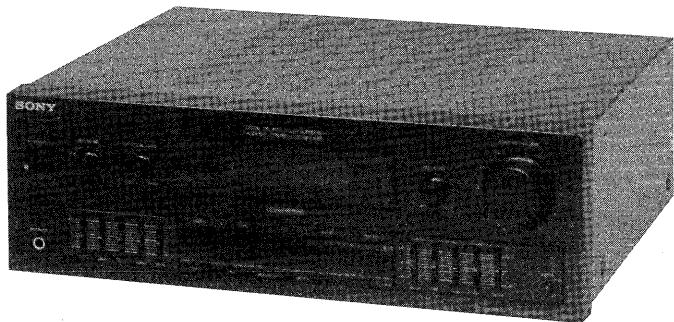


TA-AV411

SERVICE MANUAL

US Model



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC

DISTORTION:

With 8-ohm loads, both channels driven, from 40 - 20,000 Hz; rated 135 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Power bandwidth (IHF)

Dynamic headroom 30 Hz - 30 kHz (8 ohms)

1.7 dB ('78 IHF)

Harmonic distortion Less than 0.9% at rated output (Surround OFF)

Frequency response PHONO: RIAA equalization curve

CD, VIDEO, TUNER, TAPE:

30 Hz - 30 kHz ± 3 dB

Surround output 15 W + 15 W (8 ohms)

Damping factor 27 (8 ohms, 1 kHz)

Input

Input jack	Jack type	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	Phono	3.0 mV	50 kohms	71 dB 75 dB* (A, 3.0 mV)
CD, VIDEO, TUNER, TAPE	Phono	250 mV	50 kohms	92 dB 83 dB* (A, 250 mV)

*'78 IHF

Output

TAPE (REC OUT)	Phono jacks	Voltage 150 mV Impedance 1 kohm
SPEAKERS	-	Accepts speakers of 8 - 16 ohms
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones.

GRAPHIC EQUALIZER controls

Boost/Cut range:

± 8 dB (100 Hz, 330 Hz, 1 kHz, 3.3 kHz)

± 6 dB (10 kHz)

General

Power requirements

120 V AC, 60 Hz

Power consumption

250 W

AC outlets 3 switched, 120 V/1 A max.

Dimensions Approx. 430 x 145 x 360 mm (w/h/d)

(17 x 5 $\frac{5}{8}$ x 14 $\frac{1}{8}$ inches)

Weight Approx. 9.9 kg (21 lb 14 oz)

Accessories supplied

Remote Commander RM-U212 (1)

Sony batteries SUM 3(NS) (2)

Design and specifications subject to change without notice.

INTEGRATED STEREO AMPLIFIER
SONY®



使用時は添付資料も参照のこと
Refer to the additional documents.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

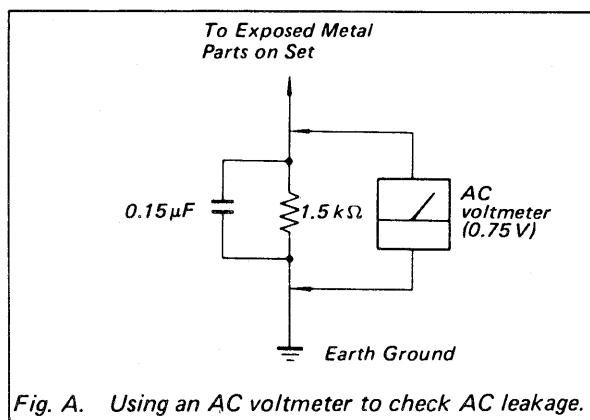


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SAFETY-RELATED COMPONENT WARNING!!

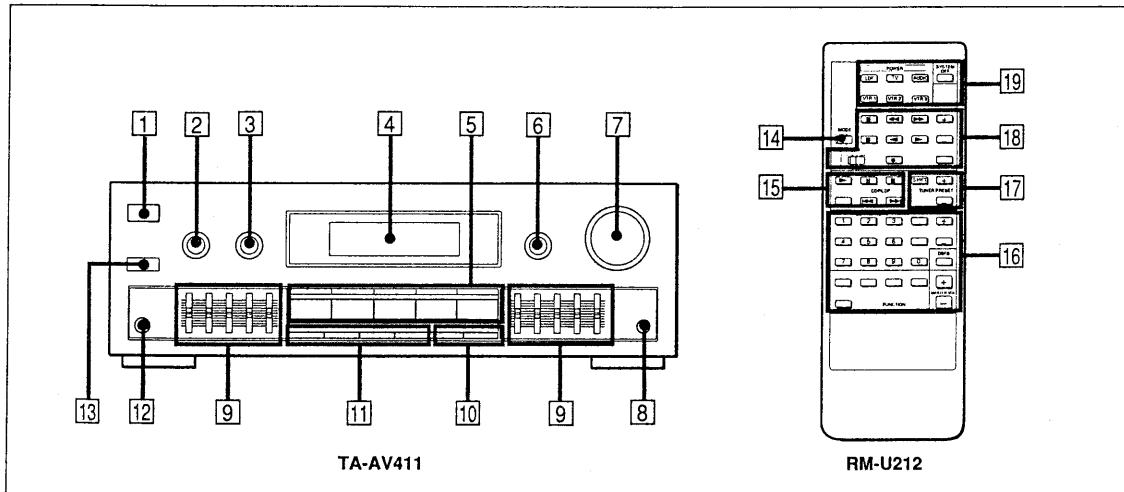
COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

GENERAL

This section is extracted from instruction manual.

1-1. Location and Function of Controls



Amplifier

1 SYSTEM POWER switch

When the SYSTEM POWER switch is turned ON, the settings on the display panel are automatically reset to the original setting.

2 SPEAKERS selector

3 INPUT BALANCE control

4 Display window

5 Function selectors

6 BALANCE control

7 MASTER VOLUME control

8 DBFB switch

9 Graphic equalizer controls

10 REAR LEVEL buttons

11 SURROUND MODE selectors

12 HEADPHONES jack

13 Remote control sensor

Remote Commander

14 MODE selector

Selects the function mode on the remote commander.

- 1: To select the function indicated in light gray such as DECK, DAT, CD player and surround mode of amplifier.
- 2: To select the functions indicated in blue such as VTR, LDP (Laser disc player) and TV.

15 CDP/LDP control section

The combined CD/LD player can be controlled with LDP position.

►: Play

■: Pause

■: Stop

D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)

◀/▶: Manual search (only for LD player)

◀◀/▶▶: Locates a desired selection.

16 Amplifier/TV section

TV/VIDEO button: Selects the input signal of the TV. (for TV)
Program number (1 to 0) and ENTER buttons: Select the channel. (for TV)

SURROUND mode selectors (for the amplifier)

ON/OFF: Turns on/off the surround mode.

MODE: Selects the surround mode.

FUNCTION selectors: Select an input source of the amplifier. (for the amplifier)

REAR VOL/TV VOL +/- buttons: Control the volume of rear speakers (surround level) or TV.

DBFB button: Turns on/off the DBFB (Dynamic Bass Feed Back). (for the amplifier)

MASTER VOL +/- buttons: Control the amplifier volume. (for the amplifier)

17 Tuner/TV section

SHIFT and TUNER PRESET/TV CH (channel) +/- buttons:
Select a preset channel of the tuner or a channel of the TV.

18 Tape deck/VCR control section

DECK/VTR selector

DECK A,B, and DAT: Selects A,B, or DAT deck.

VTR 1, 2, and 3: Selects VCR type.

(1: Betamax VCRs, 2: 8 mm VCRs, 3: VHS VCRs)

■: Pause

■: Stop

◀/▶: Fast winding

◀/▶: Play

● (REC): Recording

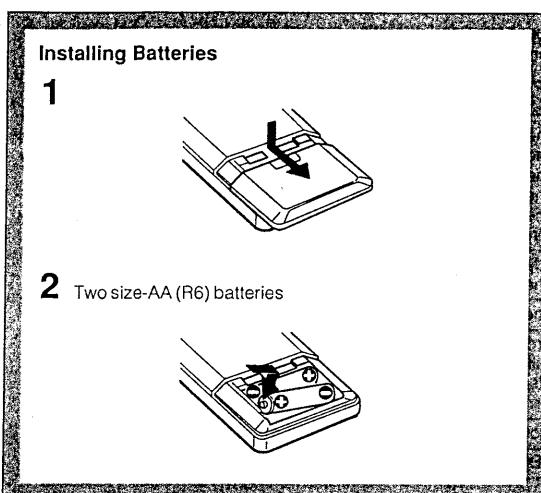
ANT (antenna) TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

VTR CH (channel) +/- buttons: Select channel on the VCR.

19 Power control section

SYSTEM OFF button: Turns off the power of the whole system: LDP, VTR, TV, and AUDIO.

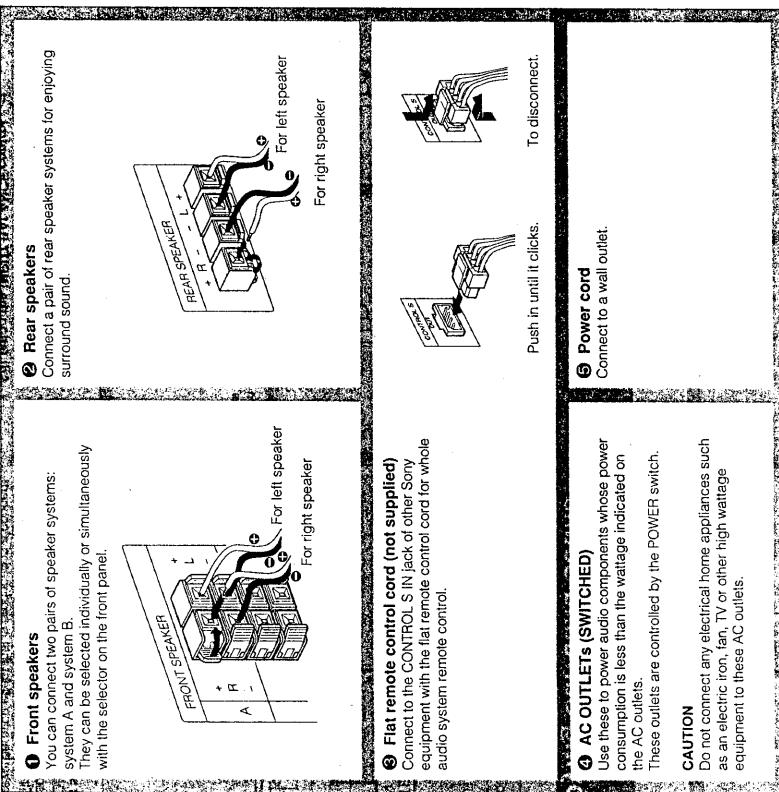
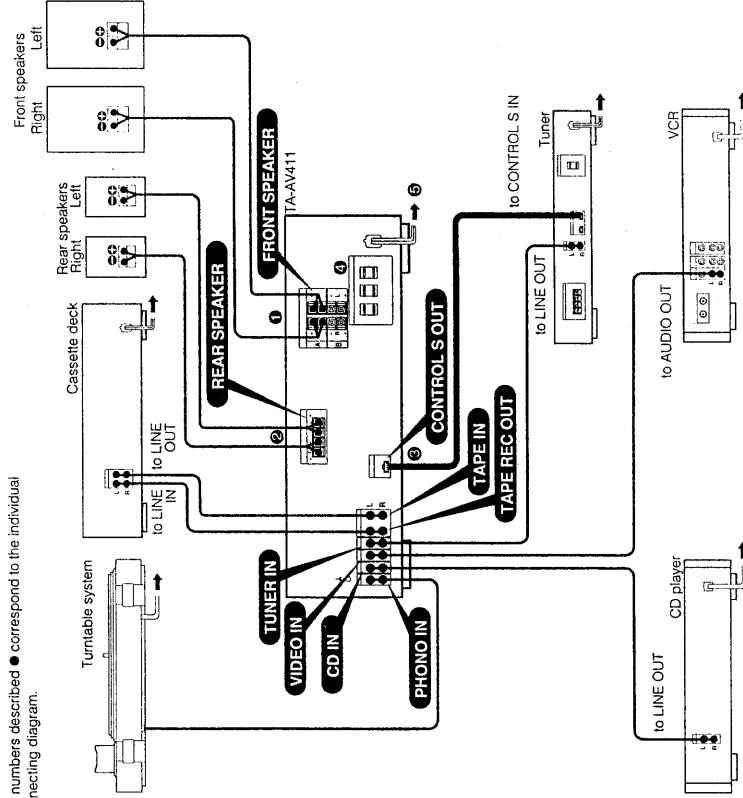
LDP/VTR1/VTR2/VTR3/TV/AUDIO POWER buttons: Control the power of each unit. (The VTR button can be operative only)



Connections

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for the left channel (L).
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- The + and - cords of the speaker systems should be correctly connected to the + and - terminals of the amplifier respectively.

The numbers described ● correspond to the individual connecting diagram.

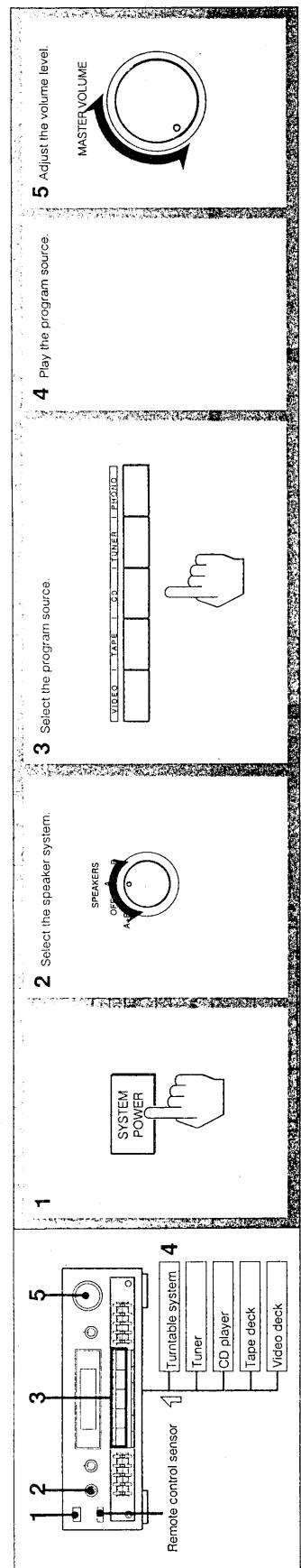


Note on speaker impedance and power capacity
This amplifier is designed to work best with speakers of nominal impedance from 8 to 16 ohms. Be sure to use a speaker system with adequate power handling capabilities.

To connect a video tape recorder
Use the following cables.

For stereo video tape recorder	RK-C74	phone plug x 2 - phone plug x 2
For monaural video tape recorder	RK-G105	mini plug x 1 - phone plug x 2
	RK-C72	phone plug x 1 - phone plug x 2

Listening to a Program Source



Selecting the speaker system

To drive speaker system A: Set SPEAKERS to 'A'.

To drive speaker system B: Set SPEAKERS to 'B'.

To drive both speakers: Set SPEAKERS to 'A + B'.

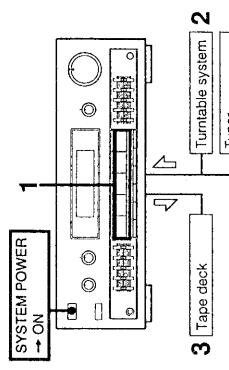
For headphone listening only: Set SPEAKERS to 'OFF'.

Notes

- When SPEAKERS is set to 'A + B', two pairs of speaker systems must be connected. Otherwise, no sound can be heard.
- The sound of rear (surround) speakers are not heard from the headphone.

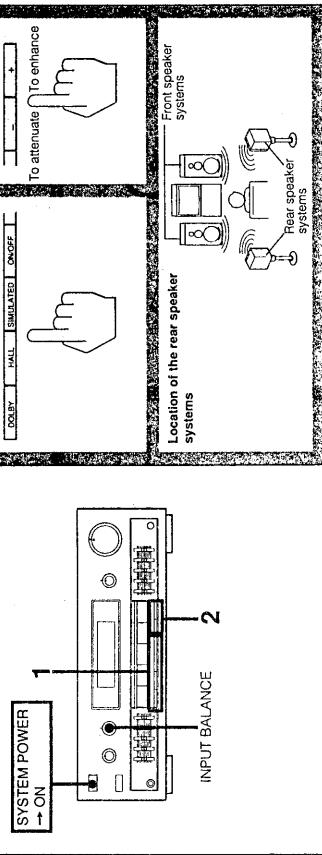
Recording

You can record any program source using a tape deck connected to the TAPE jacks. The BALANCE, VOLUME, GRAPHIC EQUALIZER controls and the DFB switch have no effect on recording.



Enjoying Surround Sound

The surround sound will be effective when surround speakers (optional) are connected to the SURROUND SPEAKER terminals on the rear panel.



Selecting surround modes

DOLBY (Dolby Surround)

Expands sound just like listening to it in a movie theater. Provides reverberation effect that is produced in a concert hall.

HALL (Hall Surround)

Gives a simulated stereo effect to monaural sound.

SIMULATED (Simulated Surround)

Gives a simulated stereo effect to monaural sound.

OFF (To disable surround effect)

The normal sound without surround effect will resume.

Note
No sound will be heard from the surround speakers, unless one of the Surround modes is selected.

Adjusting the INPUT BALANCE control
In the DOLBY SURROUND mode, adjust this control so that the (audio) volume of the surround speaker is minimized during the scene of conversation (where the sound is monaural).

SECTION 2

DIAGRAMS

2-1. Description on IC101 (μ PD75206-717-3BE)

Pin	Port	I/O	ACT	RESET	Outside	
1	RESET	I				DIGIT9
2	t0	O	H	High	L	DIGIT8
3	t1	O	H	High	L	DIGIT7
4	t2	O	H	High	L	DIGIT6
5	t3	O	H	High	L	DIGIT5
6	t4	O	H	High	L	DIGIT4
7	t5	O	H	High	L	DIGIT3
8	t6	O	H	High	L	DIGIT2
9	t7	O	H	High	L	DIGIT1
10	t8	O	H	High	L	NC
11	t9	O	H	High	L	DBFB
12	t10	O	H	High	L	FRONT MUTE
13	t11	O	H	High	L	REAR MUTE
14	t12	O	H	High	L	DRLC CONTROL
15	t13	O	H	High	L	DRLC SW A
16	t14	O	H	High	L	DRLC SW B
17	t15	O	H	High	L	-30V
18	Vload		-	High		-4V
19	Vpre		-	High		NC
20	s9	O	H	High	L	SEG9
21	s8	O	H	High	L	SEG8
22	s7	O	H	High	L	SEG7
23	s6	O	H	High	L	SEG6
24	s5	O	H	High	L	SEG5/KEY OUT5
25	s4	O	H	High	L	+5V
26	V _{DD}			High		SEG4/KEY OUT4
27	s3	O	H	High	L	SEG3/KEY OUT3
28	s2	O	H	High	L	SEG2/KEY OUT2
29	s1	O	H	High	L	SEG1/KEY OUT1
30	s0	O	H	High	L	KEY IN 1
31	p00	I	H	In	L	KEY IN 2
32	p01	I	H	In	L	

High : High - impedance status

In : Input status

Pin	Port	I/O	ACT	RESET	Outsided	
33	p02	I	H	In	L	KEY IN 3
34	p03	I	H	In	L	KEY IN 4
35	p10	I	H	In		RM - 1
36	p11	I	H	In		RM - 2
37	p12	I	L	In		DRLC SW
38	p13	I	L	In		POWER SW
39	p20	O	H	In	L	ST LC7535/LC7822
40	p21	O	L	In	L	ST LV1001M
41	p22	O	H	In	L	SV MSM59371
42	p23	O	H	In	L	VOL +
43	p30	O	H	In	L	VOL -
44	p31	O	H	In	L	VIDEO A
45	p32	O	H	In	L	VIDEO B
46	p33	O	L	In	L	TC PAUSE/PRO LOGIC
47	p60	O	H	In	L	STOP
48	p61	O	H	In	L	CLOCK
49	p62	O	H	In	L	DATA
50	p63	O	H	In	L	FRONT SP relay
51	p40	O	L	In	L	RECCOUT SW V1
52	p41	O	L	In	L	RECCOUT SW V2
53	p42	O	L	In	L	RECCOUT SW TAPE
54	p43	O	H	In	L	POWER RELAY
55	ppo	O	H	In	L	REAR SP relay
56	x1					
57	x2					
58	Vss					
59	xt1					
60	zt2					
61	p50	O	H	In		DRLC READY
62	p51	O	H	In		MIX SW
63	p52	O	H	In		DOLBY SW
64	p53	O	H	In		SIM SW

High : High-impedance status

In : Input status

2-2. Key operation

Key input has priority over serial input.

(1) Setting

KEY OUT KEY IN	S0	S1	S2	S3	S4
P00	PHONO	TUNER	CD	TAPE	VIDEO001
P02	DBFB	DELAY	DOLBY	HALL	SIMULATED

Note 1. SURROUND ON/OFF.

(2) FUNCTION Key (PHONO, TUNER, CD, TAPE, VIDEO1-4) operation

These keys execute operations below when pressed.

FUNCTION ICSerial data

REC OUT SWStatic data

VIDEO SWStatic data

FRONT MUTEOne shot

REAR MUTEOne shot

(3) REAR MUTE PORT

The port is turned to "H" by switching to SURR ON, MODE or FUNCTION.

(Key input, Serial input)

Also the port is "H" three seconds after POWER ON is selected.

REAR MUTE PORT has priority over other ports to output when POWER OFF is selected and operates when SUB VOLUME is turned to ∞ .

However there is no output for the port switching the main FUNCTION when DRLC ON is selected.

(4) DRLC CONTROL PORT (used for SP relay too)

The port is turned to "H" only when DRLC ON is selected. (Key input, Serial input)

(5) POWER RELAY PORT

The port is turned to "H" when either POWER ON or DRLC ON is selected. (Key input, Serial input RM-1, RM-2) Both MAIN and SUB are turned OFF when ALL OFF serial input is selected.

(6) DOLBY PORT

The port is turned to "L" HALL or SIM is selected. (Key input, Serial input)

(7) SIM PORT

The port is turned to "L" when SIM is selected.
(Key input, Serial input)

The relation between Switch ON and FUNCTION

SW	TA-AX311/AV411
1. PHONO	10000001
2. TUNER	01000001
3. CD	00100001
4. TAPE	00010000
5. VIDEO 3	none
6. VIDEO 2	none
7. VIDEO 1	00000011
8. VIDEO 4	none

Serial data to SURR IC (LV1001M)

The delay time is controlled with 8-bit data (short mode).

The delay time is decided by the count time.

(Address data) - FFFF (short mode)

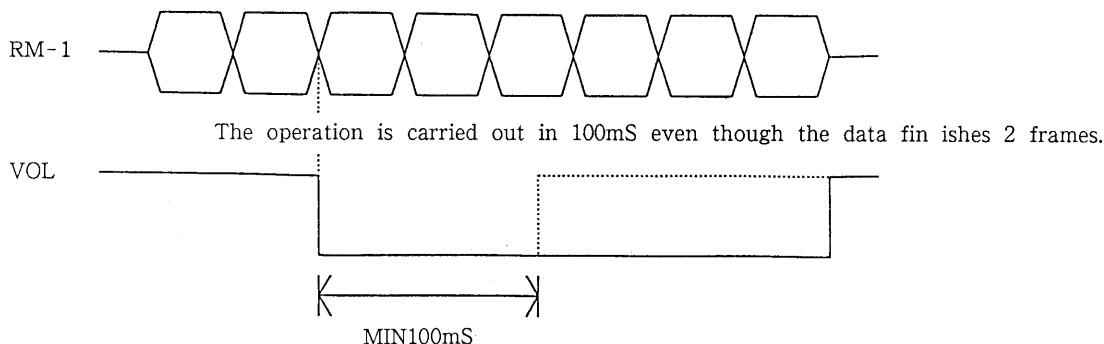
15mS 8AB0h

20mS 63C0h

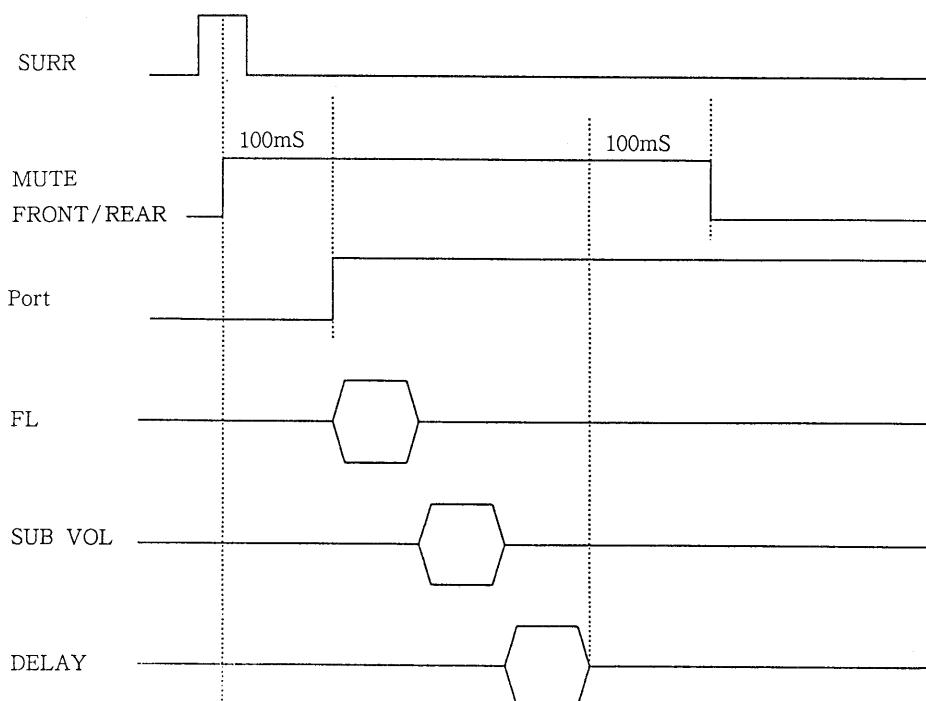
30mS 15A0h

Timing chart

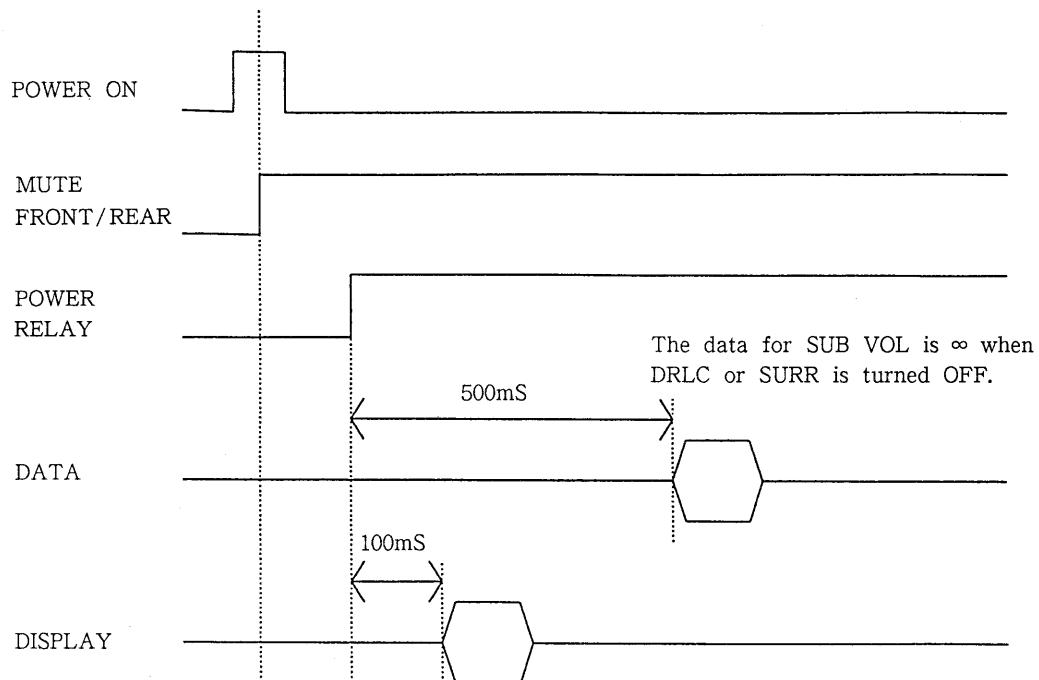
VOL +/−



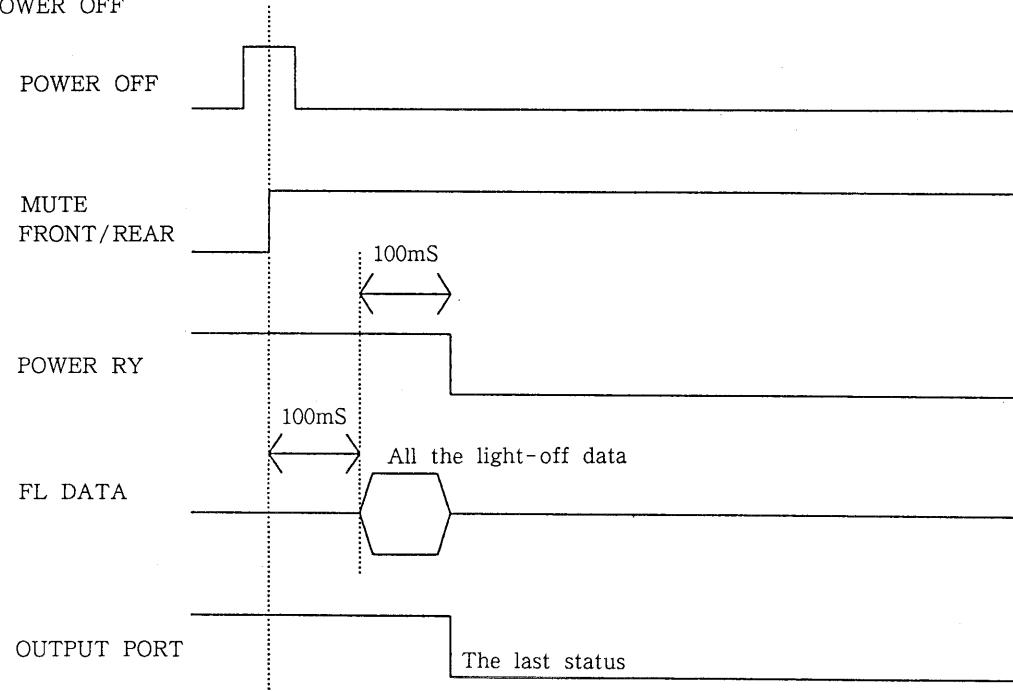
MUTE must be switched 100mS forward or backward during SURR MODE switching (including SURR/OFF switch).

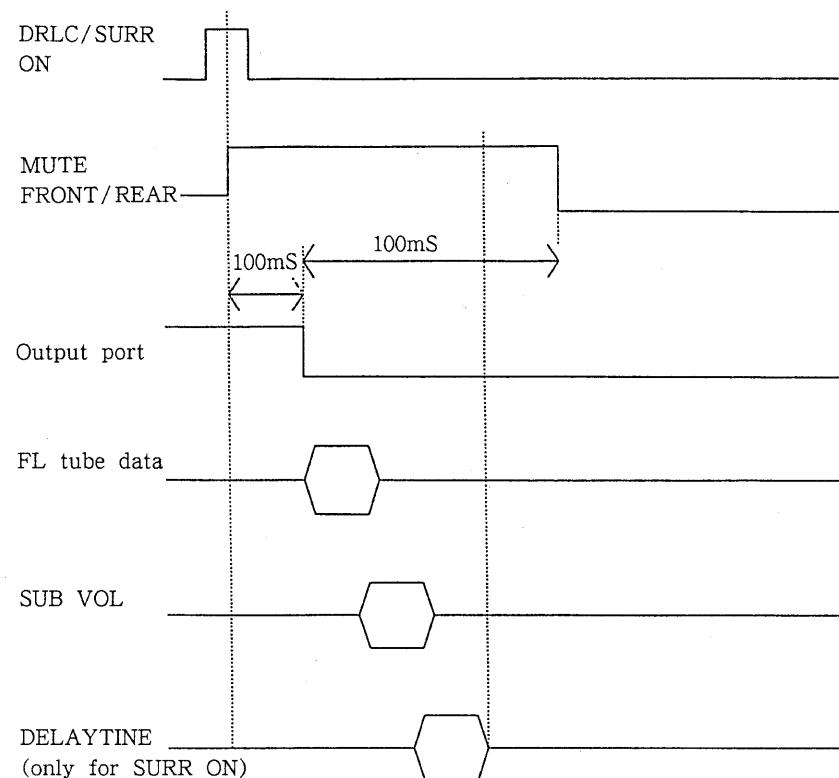


POWER ON (The same operation when starting the buck up system.)



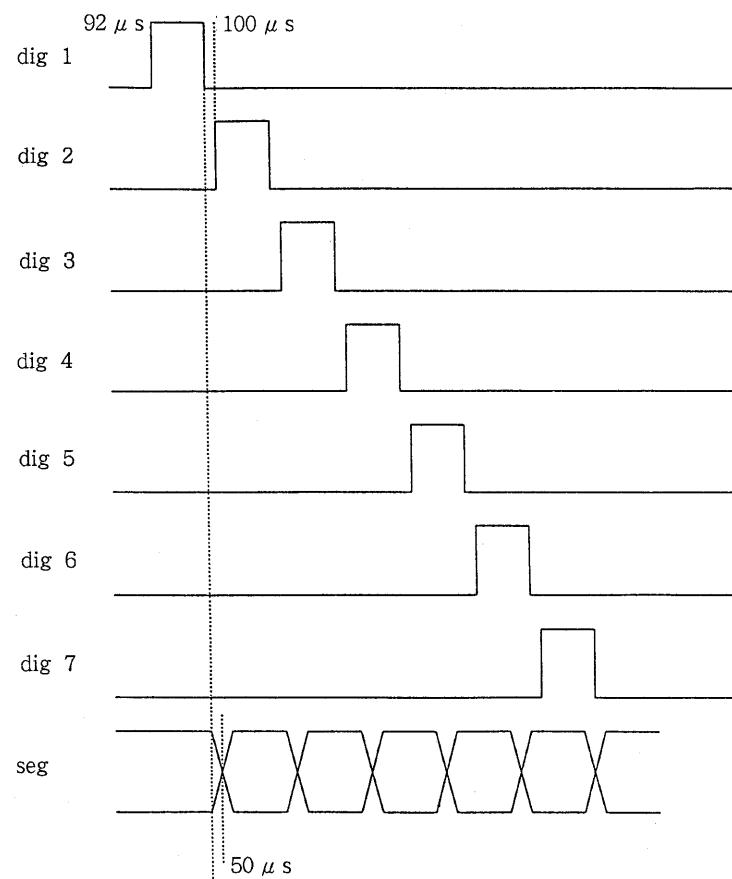
POWER OFF



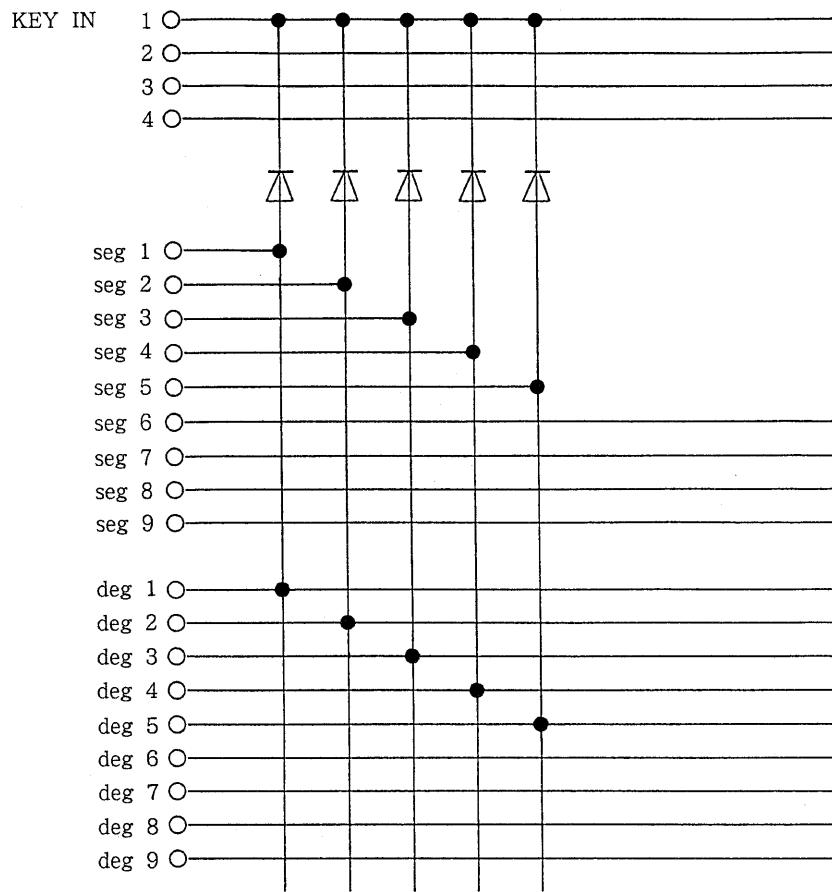
DRLC \leftrightarrow SURR mutual switching

Display operation

1. FL tube start timing



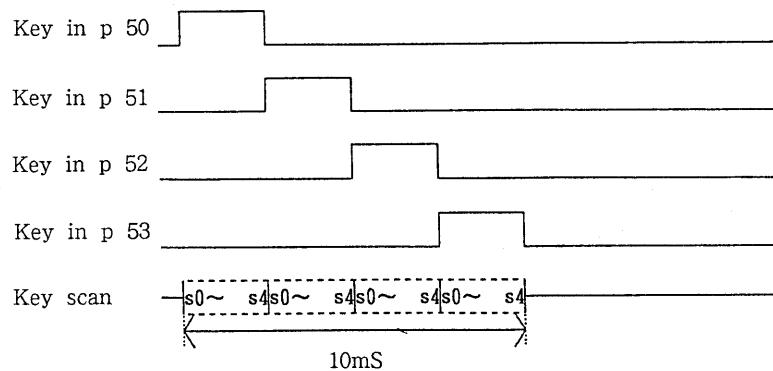
2-3. MATRIX for FL tube and KEY IN



Key scan operation

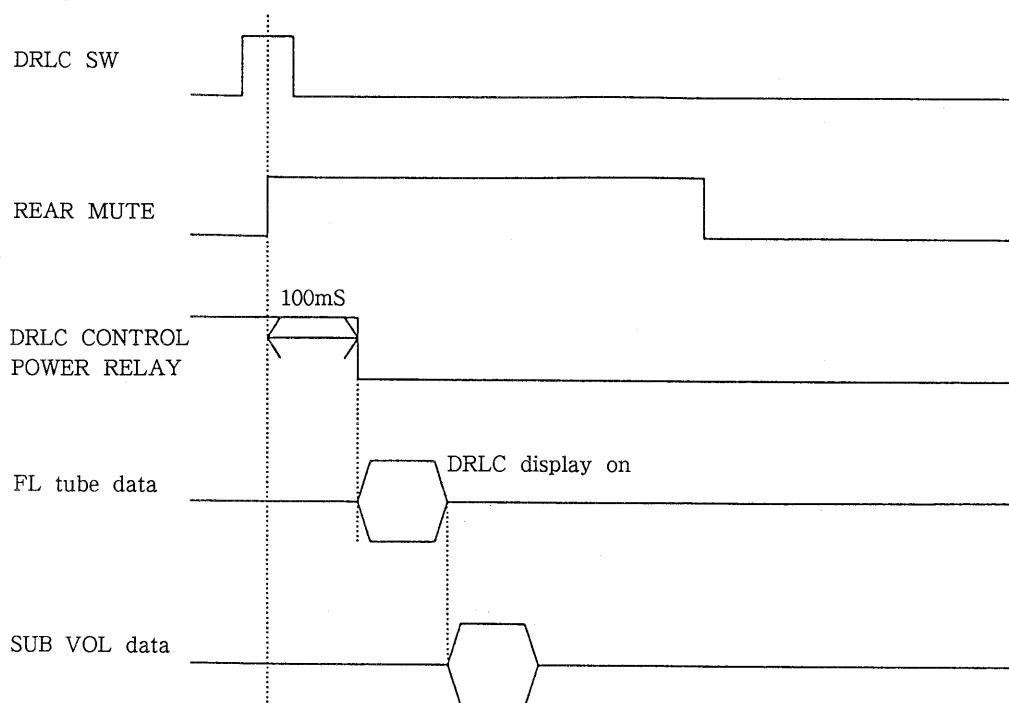
- ① Key input has priority over serial input.
- ② If a key is input 10mS after the same key was input, this is recognized as a key input and registers five times.
- ③ Double-pressing is not accepted, one pressing first and being replaced by a second has priority.
- ④ No keys can be input during POWER OFF.
- ⑤ No keys can be input for 1 Second after POWER ON.

Key scan operation

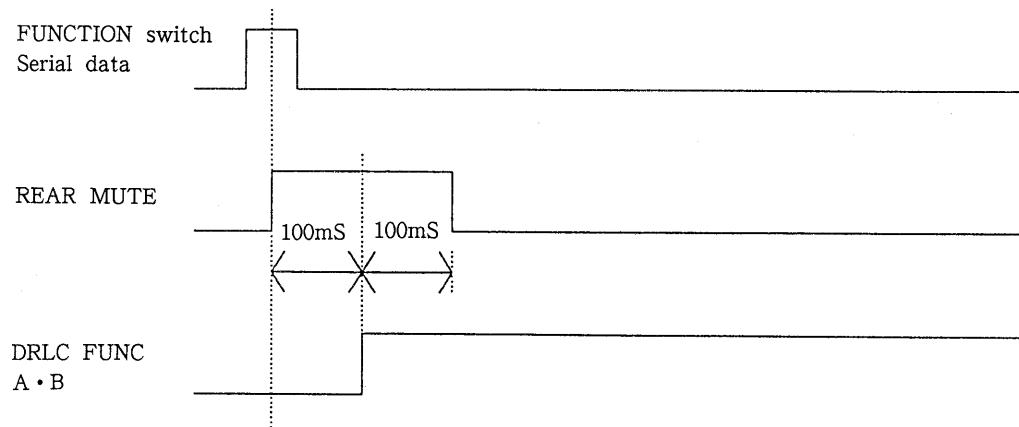


Timing chart

DRLC



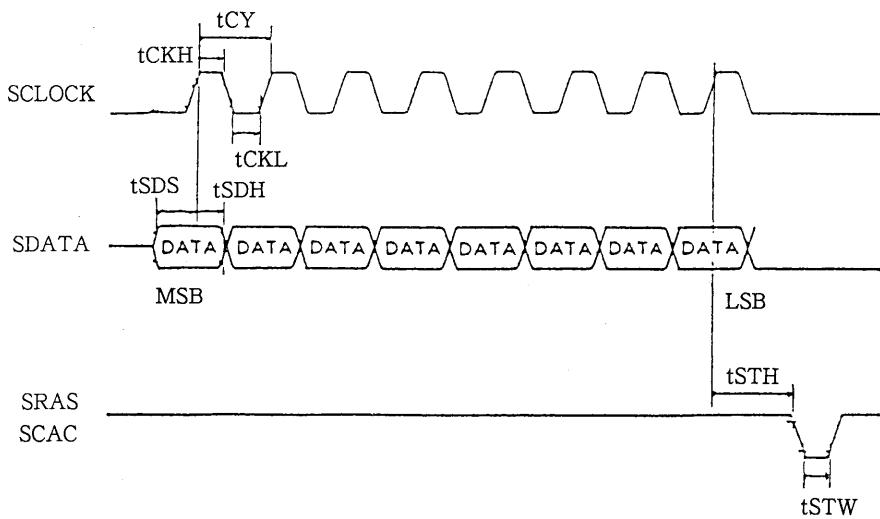
DRLC FUNCTION



2-4.Description on IC303 (LV1001M)

Pin No.	Explanations
1	De-couple capacitor for threshold voltage
2, 64	Capacitor for smoothing of rectifier output
3	Capacitor for sliding band filter and Delayed output
4, 62	Capacitor for sliding band filter
5, 61	Capacitor for pre-emphasis
6, 60	Input filter for rectifier
7, 57	Input filter for rectifier
8	Reference voltage
9	Reference voltage
10	Mute control
11	Vcc
12	Output for V_{DD}
13	Clock input for serial input, data input for parallel input mode
14	Data input for serial input, data input for parallel input mode
15	Column address selection for serial input, data input for parallel input mode
16	Row address selection for serial input, data input for parallel input mode
18 to 32	Connection to memory device
24	Vss
33	X'tal resonator for oscillator
34	X'tal resonator for oscillator
35	Long or Short mode selection
36	Serial or Parallel mode selection
37	For test mode
38	Smoothing for NR rectifier
39	Smoothing for NR rectifier
40	Capacitor for weighting on side chain path
41	Input for variable resistor
42	NR output
43	7kHz low pass filter output
44	Input for NR
45	Capacitor for de-couple on NR
46	Delay output or NR output
47	Input for mute circuit
48	Output for mute circuit
49	Output for 7kHz low pass filter
50	Input for 7kHz low pass filter
51	GND
52	Input for right channel
53	Input for left channel
54	Capacitor for de-couple on Fixed matrix output
55	Noise shaping and delay input
56	Noise shaping output
57	Delay input signal mode select switch (L + R/L - R)
58	Filter for supply voltage on comparator
63	Capacitor for sliding band filter and local decoder output

Input Address Port Timing
SHORT MODE

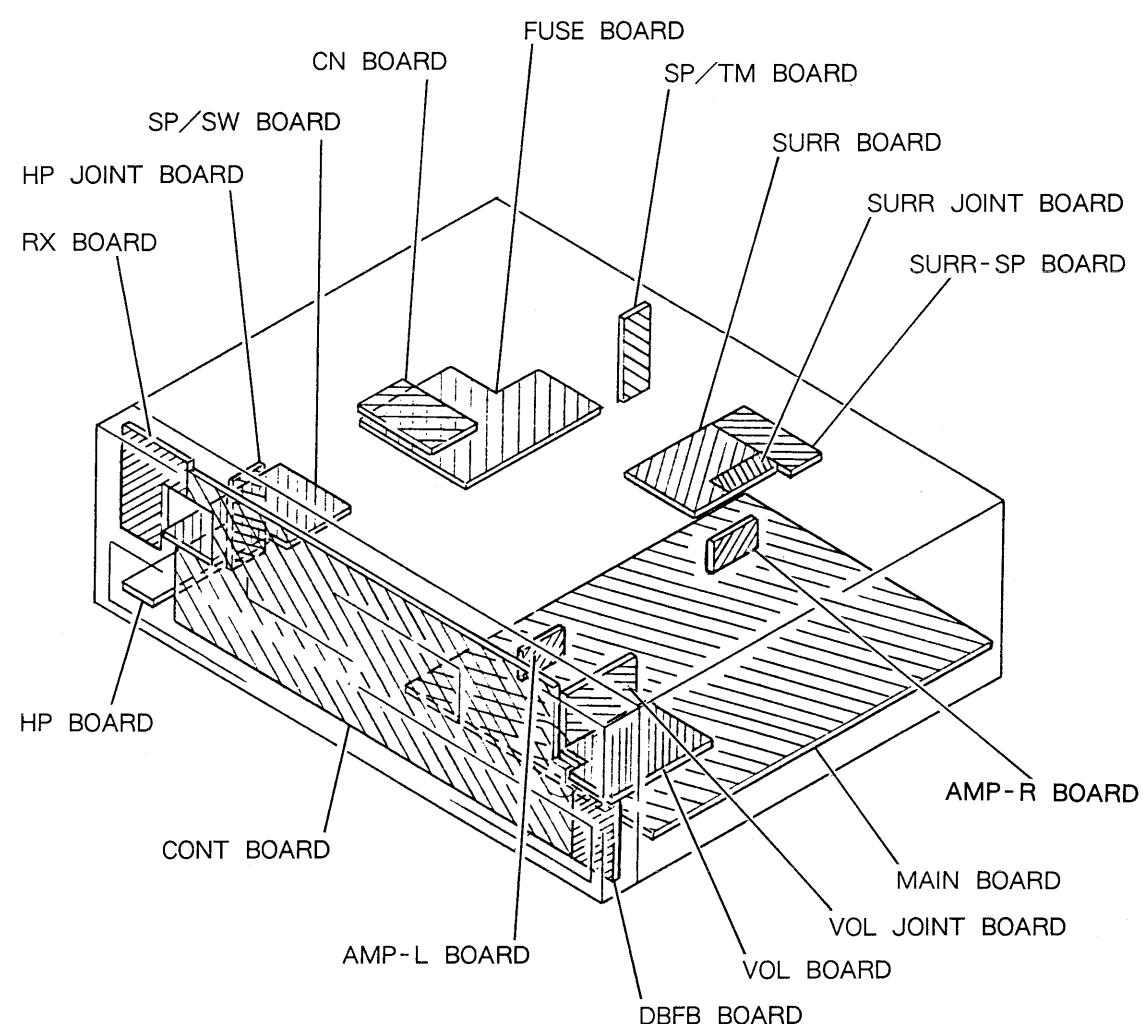


In case of short mode, delay time setting is set in above timing. The date loaded to SDATA is written on the leading edge timing. In order to select that the data latch for row address strobe or column address strobe is loaded, SRAS or SCAS port is controlled.

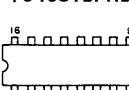
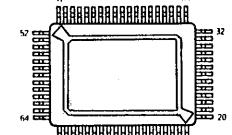
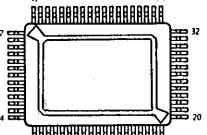
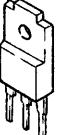
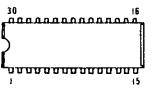
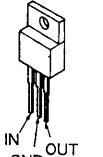
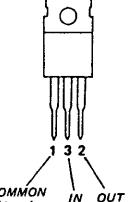
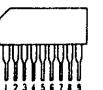
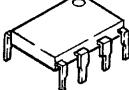
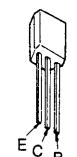
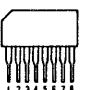
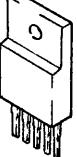
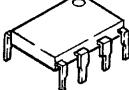
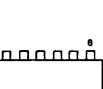
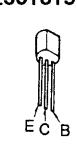
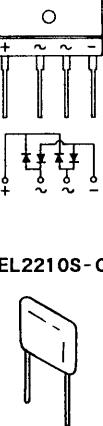
When changing delay time setting, meaningless data on a memory are read. this causes the pop noise. when SRAS or SCAS is controlled, mute circuit (pin 55 is input, pin 56 is output) is activated. Mute time is the same as the delay time which is set at that time. (Serial data input mode only, On parallel data input mode, mute circuit is activated by using the mute control port pin 18.)

On long mode, input data number is 9, the way of setting delay time is same.

2-5. CIRCUIT BOARDS LOCATION



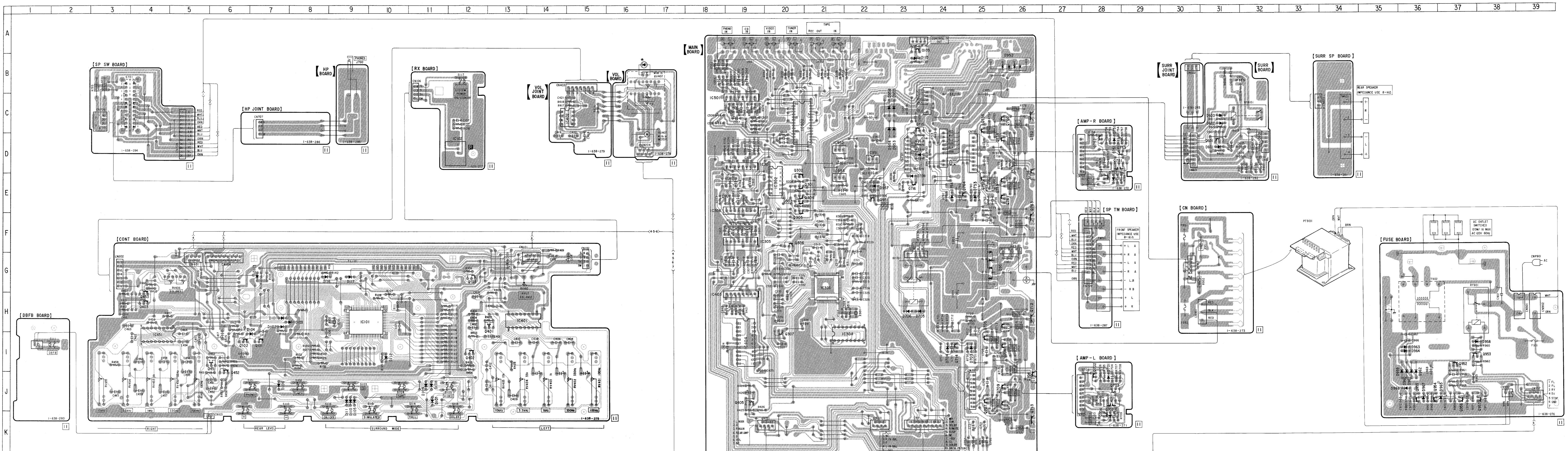
2-6. SEMICONDUCTOR LEAD LAYOUTS

CXA1100P	μ PD75206GF-717-3BE	2SA1175-HFE	2SA1684-LK
CXA1198AP		2SC2785-HFE	2SC4431-LK
M5226P		LETTER SIDE	2SD2012
TC4051BPHB			
			
(TOP VIEW)	(TOP VIEW)		
M5F7805L	LC7822	DTA124ES	HZS6C3L
M5F7812L		DTA144ES	HZS6C2L
	(TOP VIEW)	DTC114ES	HZS30-1L
IN GND OUT		DTC124ES	
M5F7912L	IR2E31A	DTC144ES	
		2SC2603-FE	
COMMON (GND) IN OUT			
LA3160	LB1639	10E2N	1S1585
M5128AL			
μ PC1237HA		S G D	
			
LC4966	SI-18752N	2SK246-Y	
MC14066BCP			
TC4001BP		S G D	
μ PD4011BC			
			
(TOP VIEW)			
2SA733-QP	RBA-402	10E2N	1S1585
2SC945-QP	RBV-602-01		
2SC1815-Y			
			
LC4966	SEL2210S-CD	LETTER SIDE	
MC14066BCP			
TC4001BP			
μ PD4011BC			
			
(TOP VIEW)			

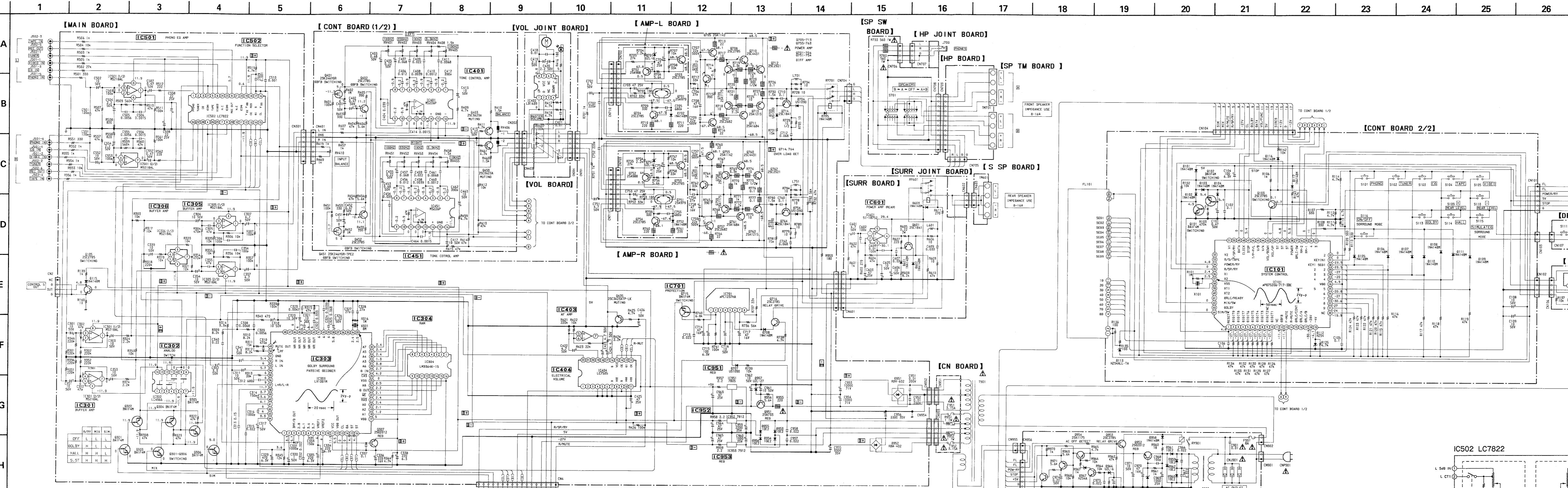
2-7. PRINTED WIRING BOARDS

• Semiconductor Location

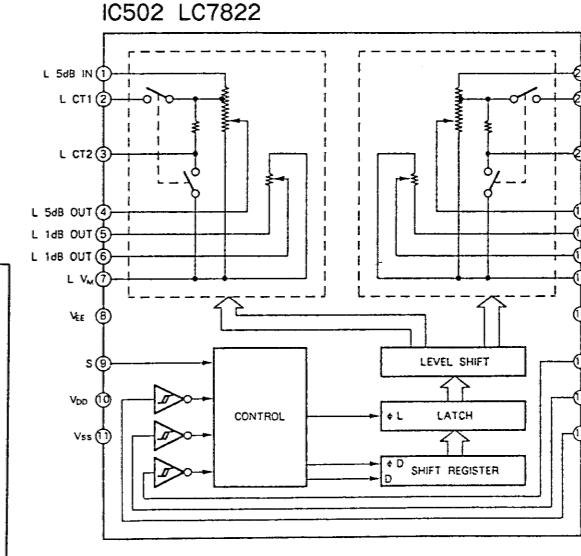
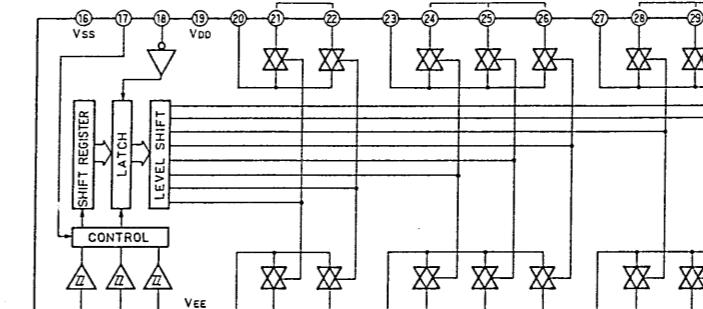
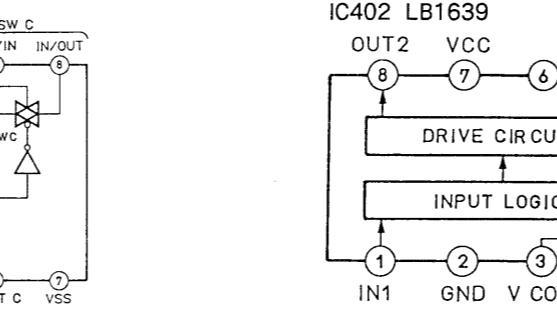
Ref. No.	Location	Ref. No.	Location
D101	H-7	Q405	J-19
D102	H-7	Q451	I-6
D103	H-8	Q452	I-6
D104	H-7	Q453	G-4
D105	J-9	Q601	D-31
D106	J-7	Q701	J-28
D107	J-11	Q702	J-28
D108	J-11	Q703	J-28
D109	J-11	Q704	K-28
D110	J-9	Q705	I-25
D111	I-9	Q706	J-26
D112	I-10	Q707	J-25
D113	G-7	Q708	I-26
D115	B-23	Q709	J-26
D116	G-8	Q710	H-26
D117	G-9	Q711	J-26
D601	D-31	Q712	H-26
D602	C-31	Q713	K-26
D603	C-31	Q714	I-24
D701	J-28	Q715	C-23
D702	K-28	Q716	E-23
D703	I-25	Q751	D-28
D704	I-24	Q752	D-28
D705	H-23	Q753	D-29
D706	H-23	Q754	E-28
D707	D-23	Q755	C-25
D708	E-23	Q756	D-26
D751	D-23	Q757	E-26
D752	E-28	Q758	D-26
D753	E-25	Q759	E-26
D754	E-24	Q760	C-26
D951	G-25	Q761	E-26
D952	B-26	Q762	C-26
D953	C-23	Q763	E-26
D954	C-23	Q764	E-25
D955	C-23	Q951	E-22
D956	C-23	Q952	I-37
D957	E-22	Q953	I-37
D958	I-37	Q954	J-36
D959	J-36	Q955	J-36
D960	J-36	Q956	J-36
D961	J-36	Q957	J-37
D962	J-36		
D963	I-36	IC101	H-9
D964	I-36	IC102	D-12
D965	J-37	IC301	D-19
D966	J-36	IC302	E-20
D967	J-36	IC303	G-21
Q101	I-7	IC304	I-22
Q102	I-6	IC305	F-19
Q103	G-12	IC306	E-19
Q104	A-23	IC401	H-13
Q301	E-20	IC402	C-15
Q302	E-20	IC403	H-19
Q303	E-20	IC404	I-19
Q304	E-20	IC451	I-4
Q305	E-20	IC501	C-19
Q306	E-20	IC601	C-20
Q307	H-20	IC701	D-32
Q401	H-13	IC951	D-22
Q402	I-12	IC952	D-21
Q403	H-3	IC953	E-21



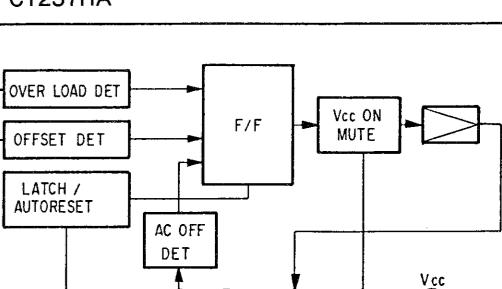
2-8. SCHEMATIC DIAGRAM



IC302 | C4966



IC701



Schematic Diagram:

otherwise noted. pF: μF
d except for electrolytics
V or less unless otherwise
d by mark  or dotted
cal for safety.
mber specified.

SECTION 3

EXPLODED VIEWS

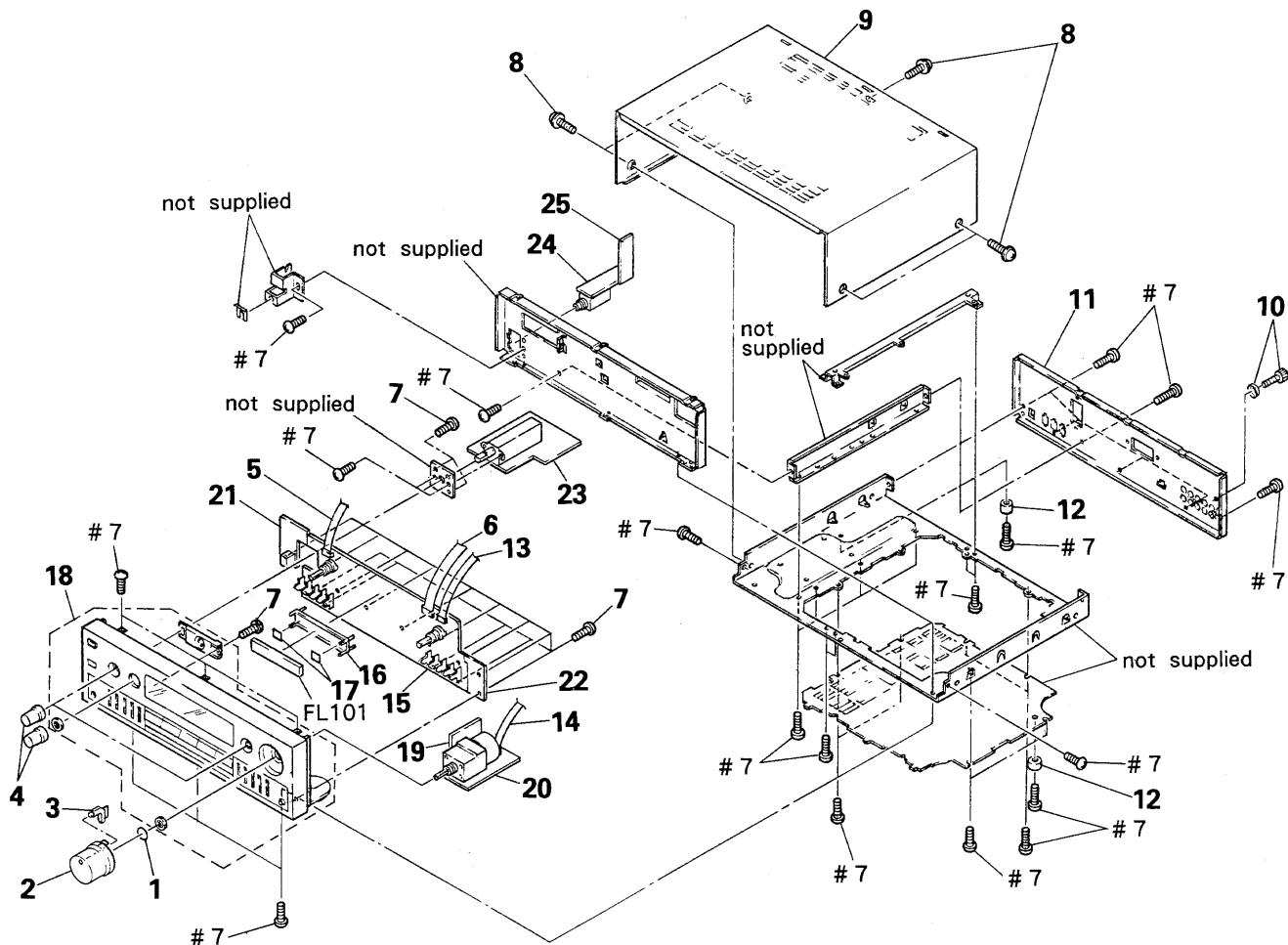
NOTE :

- - XX, - X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example :
KNOB, BALANCE (WHITE)...(RED)
↑ ↑
Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

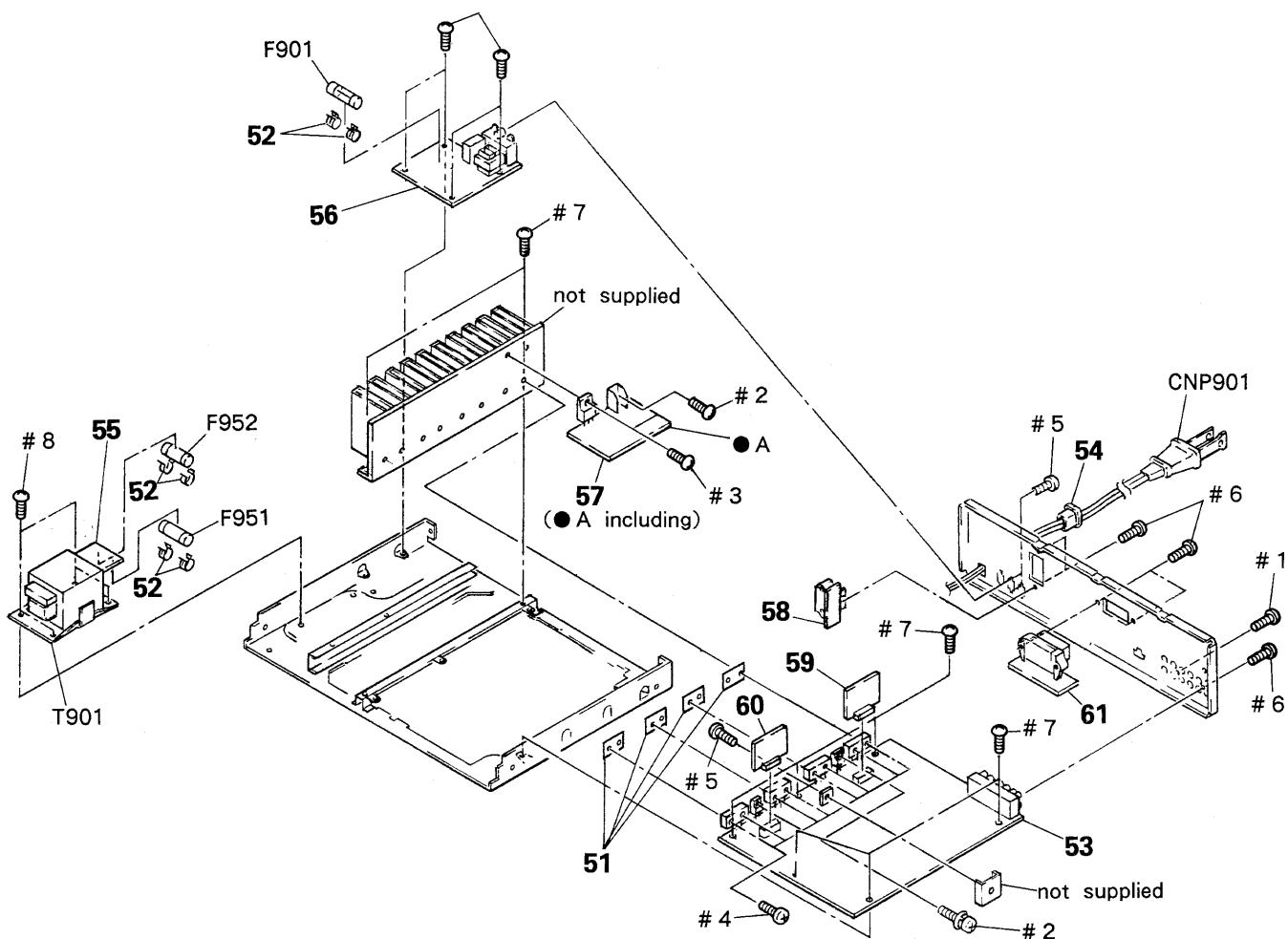
3-1. OVERALL SECTION 1



Ref. No.	Part No.	Description	Remark
1	3-350-426-01	SPRING, RING	
2	4-943-091-01	KNOB (VOL)	
3	4-943-092-01	PLATE(VOL), LIGHT GUIDE	
4	4-943-420-01	KNOB (DIA. 19)	
5	1-590-486-11	WIRE, FLAT TYPE (7 CORE)	
6	1-590-487-11	WIRE, FLAT TYPE (17 CORE)	
7	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-931-031-11	CASE	
10	3-706-165-00	SCREW	
11	* 4-943-458-01	PANEL, BACK	
12	X-4941-229-1	FOOT ASSY (F2112S-M)	

Ref. No.	Part No.	Description	Remark
13	1-590-538-11	WIRE, FLAT TYPE (7 CORE)	
14	1-590-485-11	WIRE, FLAT TYPE (7 CORE)	
15	* A-4341-682-A	CONT BOARD, COMPLETE	
16	* 4-943-107-01	HOLDER (FL TUBE)	
17	* 4-921-941-01	CUSHION (FL)	
18	A-4323-854-A	PANEL ASSY, FRONT	
19	* 1-638-279-11	VOL JOINT BOARD	
20	* 1-638-278-11	VOL BOARD	
21	* 1-638-277-11	RX BOARD	
22	* 1-638-280-11	DBFB BOARD	
23	* 1-638-284-11	SP SW BOARD	
24	* 1-638-285-11	HP BOARD	
25	* 1-638-286-11	HP JOINT BOARD	

3-2. OVERALL SECTION 2



Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-885-901-31	SHEET, RADIATION		60	* 1-638-271-11	AMP-L BOARD	
52	1-533-217-31	HOLDER, FUSE		61	* 1-638-281-11	SURR SP BOARD	
53	* A-4341-678-A	MAIN BOARD, COMPLETE		CNP901	\triangle 1-551-478-00	CORD, POWER	
54	* 3-703-244-00	BUSHING (2104), CORD		F901	\triangle 1-532-749-11	FUSE, GLASS TUBE (6A)	
55	* 1-638-273-11	CN BOARD		F951	\triangle 1-576-107-11	FUSE (3.15 A)	
56	* 1-638-276-11	FUSE BOARD		F952	\triangle 1-576-107-11	FUSE (3.15 A)	
57	* 1-638-282-11	SURR BOARD (A including)		T901	\triangle 1-450-370-11	TRANSFORMER, POWER	
58	* 1-638-287-11	SP, TM, BOARD					
59	* 1-638-272-11	AMP-R BOARD					

SECTION 4

ELECTRICAL PARTS LIST

AMP - L **AMP - R** **CN**

NOTE :

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- - XX, - X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- **SEMICONDUCTORS**
In each case, u: μ , for example:
uA... : μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- **CAPACITORS :**
uF: μ F
- **COILS**
uH: μ H

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remarks</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remarks</u>
	* 1-638-271-11	AMP-L BOARD	*****					< CONNECTOR >			
		*****						CN703 1-560-943-00 PIN, CONNECTOR 9P			
			< CAPACITOR >					< DIODE >			
C703	1-124-477-11	ELECT	47uF	20%	25V		D751	8-719-933-40	DIODE	HZS6C2L	
C704	1-124-477-11	ELECT	47uF	20%	25V		D752	8-719-987-63	DIODE	1N4148M	
C705	1-162-292-31	CERAMIC	680PF	10%	50V			< TRANSISTOR >			
			< CONNECTOR >					Q751 8-729-620-18 TRANSISTOR 2SA979-FG			
CN702	1-560-943-00	PIN, CONNECTOR 9P	< DIODE >				Q752	8-729-108-14	TRANSISTOR	2SA988-F	
							Q753	8-729-119-78	TRANSISTOR	2SC2785-HFE	
D701	8-719-933-40	DIODE	HZS6C2L	< RESISTOR >			Q754	8-729-119-78	TRANSISTOR	2SC2785-HFE	
D702	8-719-987-63	DIODE	1N4148M				R752	1-249-435-11	CARBON	33K	5% 1/4W
			< TRANSISTOR >				R753	1-249-408-11	CARBON	180	5% 1/4W
Q701	8-729-620-18	TRANSISTOR	2SA979-FG				R754	1-249-421-11	CARBON	2.2K	5% 1/4W
Q702	8-729-108-14	TRANSISTOR	2SA988-F	< RESISTOR >			R755	1-249-434-11	CARBON	27K	5% 1/4W
Q703	8-729-119-78	TRANSISTOR	2SC2785-HFE				R756	1-249-426-11	CARBON	5.6K	5% 1/4W
Q704	8-729-119-78	TRANSISTOR	2SC2785-HFE				R757	1-249-429-11	CARBON	10K	5% 1/4W
			< FUSE >				R758	1-249-435-11	CARBON	33K	5% 1/4W
			*****				R759	1-249-411-11	CARBON	330	5% 1/4W
R702	1-249-435-11	CARBON	33K	5%	1/4W		R760	\triangle 1-247-704-11	CARBON	220	5% 1/4W
R703	1-249-408-11	CARBON	180	5%	1/4W		R761	\triangle 1-247-704-11	CARBON	220	5% 1/4W
R704	1-249-421-11	CARBON	2.2K	5%	1/4W						
R705	1-249-434-11	CARBON	27K	5%	1/4W						
R706	1-249-426-11	CARBON	5.6K	5%	1/4W						
R707	1-249-429-11	CARBON	10K	5%	1/4W						
R708	1-249-435-11	CARBON	33K	5%	1/4W						
R709	1-249-411-11	CARBON	330	5%	1/4W						
R710	\triangle 1-247-704-11	CARBON	220	5%	1/4W						
R711	\triangle 1-247-704-11	CARBON	220	5%	1/4W						
			< RESISTOR >								
	* 1-638-272-11	AMP-R BOARD	*****								
			< CAPACITOR >								
C753	1-124-477-11	ELECT	47uF	20%	25V						
C754	1-124-477-11	ELECT	47uF	20%	25V						
C755	1-162-292-31	CERAMIC	680PF	10%	50V						

CONT

Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks					
		* A-4341-682-A CONT BOARD, COMPLETE															

		* 1-638-275-11	CONT BOARD				D101	8-719-987-63	DIODE	1N4148M							
		1-533-217-31	HOLDER, FUSE				D102	8-719-987-63	DIODE	1N4148M							
		1-569-132-11	PIN, CONNECTOR 7P				D103	8-719-987-63	DIODE	1N4148M							
		4-352-844-01	PIN, LEAD, COATING				D104	8-719-987-63	DIODE	1N4148M							
		* 4-921-941-01	CUSHION (FL)				D105	8-719-987-63	DIODE	1N4148M							
		* 4-943-107-01 HOLDER (FL TUBE)															
		(< CAPACITOR >)															
C101	1-124-902-00	ELECT	0.47uF	20%	50V		D106	8-719-987-63	DIODE	1N4148M							
C102	1-130-495-00	MYLAR	0.1uF	5%	50V		D107	8-719-987-63	DIODE	1N4148M							
C103	1-162-596-00	CERAMIC	0.022uF				D108	8-719-987-63	DIODE	1N4148M							
C104	1-124-443-00	ELECT	100uF	20%	10V		D109	8-719-987-63	DIODE	1N4148M							
C105	1-130-495-00	MYLAR	0.1uF	5%	50V		D110	8-719-987-63	DIODE	1N4148M							
C106	1-130-495-00	MYLAR	0.1uF	5%	50V		D111	8-719-987-63	DIODE	1N4148M							
C108	1-136-907-00	ELECT	10uF	5%	50V		D112	8-719-985-53	DIODE	HZS4ALL							
C109	1-136-907-00	ELECT	10uF	5%	50V		D113	8-719-985-53	DIODE	HZS4ALL							
C401	1-124-903-11	ELECT	1uF	20%	50V		D116	8-719-987-63	DIODE	1N4148M							
C402	1-124-902-00	ELECT	0.47uF	20%	50V		D117	8-719-987-63	DIODE	1N4148M							
C403	1-124-254-00	ELECT	0.68uF	20%	50V		(< FILTER >)										
C404	1-130-490-11	MYLAR	0.039uF	5%	50V		FL101	1-519-663-11	INDICATOR TUBE, FLUORESCENT								
C405	1-124-464-11	ELECT	0.22uF	20%	50V		(< IC >)										
C406	1-130-484-00	MYLAR	0.012uF	5%	50V		IC101	8-759-154-40	IC	uPD75206-717-3BE							
C407	1-130-493-00	MYLAR	0.068uF	5%	50V		IC401	8-759-602-04	IC	M5226P							
C408	1-130-478-00	MYLAR	0.0039uF	5%	50V		IC451	8-759-602-04	IC	M5226P							
C409	1-130-487-00	MYLAR	0.022uF	5%	50V		(< COIL >)										
C410	1-164-086-11	CERAMIC	0.0012uF	10%	50V		L731	* 1-420-872-00	COIL, AIR CORE								
C411	1-130-481-00	MYLAR	0.0068uF	5%	50V		(< TRANSISTOR >)										
C412	1-162-289-31	CERAMIC	390PF	10%	50V		Q101	8-729-900-36	TRANSISTOR	DTC124ES							
C413	1-124-907-11	ELECT	10uF	20%	50V		Q102	8-729-900-63	TRANSISTOR	DTA124ES							
C414	1-161-374-11	CERAMIC	0.0015uF	20%	50V		Q103	8-729-119-78	TRANSISTOR	2SC2785-HFE							
C415	1-136-169-00	FILM	0.22uF	5%	50V		Q401	8-729-224-61	TRANSISTOR	2SK246-Y							
C417	1-124-907-11	ELECT	10uF	20%	50V		Q402	8-729-119-78	TRANSISTOR	2SC2785-HFE							
C451	1-124-903-11	ELECT	1uF	20%	50V		Q403	8-729-141-30	TRANSISTOR	2SC3623A-LK							
C452	1-124-902-00	ELECT	0.47uF	20%	50V		Q451	8-729-224-61	TRANSISTOR	2SK246-Y							
C453	1-124-254-00	ELECT	0.68uF	20%	50V		Q452	8-729-119-78	TRANSISTOR	2SC2785-HFE							
C454	1-130-490-11	MYLAR	0.039uF	5%	50V		Q453	8-729-141-30	TRANSISTOR	2SC3623A-LK							
C455	1-124-464-11	ELECT	0.22uF	20%	50V		(< RESISTOR >)										
C456	1-130-484-00	MYLAR	0.012uF	5%	50V		R101	1-247-903-00	CARBON	1M	5%	1/4W					
C457	1-130-493-00	MYLAR	0.068uF	5%	50V		R102	1-249-429-11	CARBON	10K	5%	1/4W					
C458	1-130-478-00	MYLAR	0.0039uF	5%	50V		R103	1-247-895-00	CARBON	470K	5%	1/4W					
C459	1-130-487-00	MYLAR	0.022uF	5%	50V		R106	1-249-417-11	CARBON	1K	5%	1/4W					
C460	1-164-086-11	CERAMIC	0.0012uF	10%	50V		R107	1-249-411-11	CARBON	330	5%	1/4W					
C461	1-130-481-00	MYLAR	0.0068uF	5%	50V		R108	1-249-411-11	CARBON	330	5%	1/4W					
C462	1-162-289-31	CERAMIC	390PF	10%	50V		R109	1-249-411-11	CARBON	330	5%	1/4W					
C463	1-124-907-11	ELECT	10uF	20%	50V		R110	1-249-411-11	CARBON	330	5%	1/4W					
C464	1-161-374-11	CERAMIC	0.0015uF	20%	50V		R111	1-249-425-11	CARBON	4.7K	5%	1/4W					
	(< CONNECTOR >)											R112	1-249-425-11	CARBON	4.7K	5%	1/4W
CN101	* 1-568-850-11	SOCKET, CONNECTOR 7P					R113	1-249-425-11	CARBON	4.7K	5%	1/4W					
CN102	* 1-565-480-11	CONNECTOR, BOARD TO BOARD 4P					R114	1-249-425-11	CARBON	4.7K	5%	1/4W					
CN104	1-568-860-11	SOCKET, CONNECTOR 17P					R115	1-249-437-11	CARBON	47K	5%	1/4W					
CN202	* 1-561-651-00	SOCKET, CONNECTOR 7P					R116	1-249-437-11	CARBON	47K	5%	1/4W					
CN401	* 1-568-850-11	SOCKET, CONNECTOR 7P					R117	1-249-437-11	CARBON	47K	5%	1/4W					
CN402	* 1-561-651-00	SOCKET, CONNECTOR 7P															

CONT	DBFB	FUSE
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R118	1-249-437-11	CARBON	47K 5% 1/4W	RV406	1-241-022-11	RES, VAR, CARBON 150K/150K (BALANCE)	
R119	1-249-437-11	CARBON	47K 5% 1/4W	RV410	1-238-777-11	RES, VAR, CARBON 250K (IN PUT BALANCE)	
R120	1-249-437-11	CARBON	47K 5% 1/4W	RV451	1-241-434-11	RES, VAR, SLIDE 250K (100Hz)	
R121	1-249-437-11	CARBON	47K 5% 1/4W	RV452	1-241-434-11	RES, VAR, SLIDE 250K (330Hz)	
R122	1-249-437-11	CARBON	47K 5% 1/4W	RV453	1-241-434-11	RES, VAR, SLIDE 250K (1KHz)	
R123	1-249-437-11	CARBON	47K 5% 1/4W	RV454	1-241-434-11	RES, VAR, SLIDE 250K (3.3KHz)	
R124	1-249-437-11	CARBON	47K 5% 1/4W	RV455	1-241-434-11	RES, VAR, SLIDE 250K (10KHz)	
R125	1-249-425-11	CARBON	4.7K 5% 1/4W				⟨ SWITCH ⟩
R126	1-249-437-11	CARBON	47K 5% 1/4W	S101	1-554-303-21	SWITCH, TACTILE (PHONO)	
R127	1-249-437-11	CARBON	47K 5% 1/4W	S102	1-554-303-21	SWITCH, TACTILE (TUNER)	
R128	1-249-437-11	CARBON	47K 5% 1/4W	S103	1-554-303-21	SWITCH, TACTILE (CD)	
R129	1-249-437-11	CARBON	47K 5% 1/4W	S104	1-554-303-21	SWITCH, TACTILE (TAPE)	
R130	1-249-437-11	CARBON	47K 5% 1/4W	S105	1-554-303-21	SWITCH, TACTILE (VIDEO)	
R131	1-249-437-11	CARBON	47K 5% 1/4W	S109	1-554-303-21	SWITCH, TACTILE (+)	
R132	1-249-437-11	CARBON	47K 5% 1/4W	S110	1-554-303-21	SWITCH, TACTILE (-)	
R133	1-249-437-11	CARBON	47K 5% 1/4W	S113	1-554-303-21	SWITCH, TACTILE (DOLBY)	
R134	1-249-437-11	CARBON	47K 5% 1/4W	S114	1-554-303-21	SWITCH, TACTILE (HALL)	
R135	1-249-405-11	CARBON	100 5% 1/4W	S115	1-554-303-21	SWITCH, TACTILE (SIMULATED)	
R136	1-249-405-11	CARBON	100 5% 1/4W	S116	1-554-303-21	SWITCH, TACTILE (ON/OFF)	
R142	1-249-429-11	CARBON	10K 5% 1/4W				⟨ CRYSTAL ⟩
R143	1-249-437-11	CARBON	47K 5% 1/4W	X101	1-567-775-11	VIBRATOR, CERAMIC	
R401	1-249-441-11	CARBON	100K 5% 1/4W				
R402	1-247-903-00	CARBON	1M 5% 1/4W				
R403	1-249-411-11	CARBON	330 5% 1/4W				
R404	1-249-437-11	CARBON	47K 5% 1/4W				
R405	1-249-412-11	CARBON	390 5% 1/4W				*****
R406	1-249-426-11	CARBON	5.6K 5% 1/4W				* 1-638-280-11 DBFB BOARD
R407	1-249-417-11	CARBON	1K 5% 1/4W				*****
R408	1-249-419-11	CARBON	1.5K 5% 1/4W				
R409	1-249-425-11	CARBON	4.7K 5% 1/4W				
R410	1-249-419-11	CARBON	1.5K 5% 1/4W				⟨ CONNECTOR ⟩
R411	1-249-425-11	CARBON	4.7K 5% 1/4W	CN107	* 1-568-951-11	PIN, CONNECTOR 2P	
R412	1-249-429-11	CARBON	10K 5% 1/4W				
R413	1-249-437-11	CARBON	47K 5% 1/4W				⟨ SWITCH ⟩
R414	1-249-437-11	CARBON	47K 5% 1/4W	S111	1-554-303-21	SWITCH, TACTILE (DBFB)	
R415	1-249-437-11	CARBON	47K 5% 1/4W				
R419	1-249-417-11	CARBON	1K 5% 1/4W				*****
R451	1-249-441-11	CARBON	100K 5% 1/4W				*****
R452	1-247-903-00	CARBON	1M 5% 1/4W				
R453	1-249-411-11	CARBON	330 5% 1/4W				* 1-638-276-11 FUSE BOARD
R454	1-249-437-11	CARBON	47K 5% 1/4W				*****
R455	1-249-412-11	CARBON	390 5% 1/4W				
R456	1-249-426-11	CARBON	5.6K 5% 1/4W				⟨ CAPACITOR ⟩
R457	1-249-417-11	CARBON	1K 5% 1/4W	C901	1-161-744-00	CERAMIC	0.01uF 400V
R458	1-249-419-11	CARBON	1.5K 5% 1/4W	C966	1-130-487-00	MYLAR	0.022uF 5% 50V
R459	1-249-425-11	CARBON	4.7K 5% 1/4W	C967	1-130-487-00	MYLAR	0.022uF 5% 50V
R460	1-249-419-11	CARBON	1.5K 5% 1/4W	C968	1-162-282-31	CERAMIC	100PF 10% 50V
R461	1-249-425-11	CARBON	4.7K 5% 1/4W	C969	1-124-557-11	ELECT	1000uF 20% 25V
R469	1-249-417-11	CARBON	1K 5% 1/4W	C970	1-124-477-11	ELECT	47uF 20% 25V
				C971	1-124-907-11	ELECT	10uF 20% 50V
				C972	1-124-903-11	ELECT	1uF 20% 50V
				C973	1-130-487-00	MYLAR	0.022uF 5% 50V
				C974	1-124-464-11	ELECT	0.22uF 20% 50V
							⟨ CONNECTOR ⟩
RV401	1-241-434-11	RES, VAR, SLIDE	250K (100Hz)	CN901	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
RV402	1-241-434-11	RES, VAR, SLIDE	250K (330Hz)	CN902	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
RV403	1-241-434-11	RES, VAR, SLIDE	250K (1KHz)	CN956	* 1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P	
RV404	1-241-434-11	RES, VAR, SLIDE	250K (3.3KHz)	CN957	* 1-568-826-11	SOCKET, CONNECTOR 7P	
RV405	1-241-434-11	RES, VAR, SLIDE	250K (10KHz)	CN901	△1-540-062-11	OUTLET, AC	

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

FUSE HP HP JOINT MAIN

Ref. No.	Part No.	Description			Remarks		Ref. No.	Part No.	Description			Remarks	
< DIODE >													
D958	8-719-987-63	DIODE	1N4148M					* 1-638-286-11	HP JOINT BOARD				
D959	8-719-200-77	DIODE	10E2N						*****				
D960	8-719-200-77	DIODE	10E2N										
D961	8-719-200-77	DIODE	10E2N										
D962	8-719-200-77	DIODE	10E2N										
D963	8-719-987-63	DIODE	1N4148M					*****					
D964	8-719-987-63	DIODE	1N4148M										
D965	8-719-933-41	DIODE	HZS6C3L										
D966	8-719-933-41	DIODE	HZS6C3L										
D967	8-719-985-53	DIODE	HZS4ALL										
< FUSE >													
F901	△1-532-749-11	FUSE (6A)						* 1-638-270-11	MAIN BOARD				
< TRANSISTOR >								1-533-217-31	HOLDER, FUSE				
< RESISTOR >								* 4-942-204-01	PLATE, GROUND				
< CAPACITOR >								7-682-548-04	SCREW +BVTT 3X8 (S)				
0952	8-729-209-15	TRANSISTOR	2SD2012					C301	1-124-907-11	ELECT	10uF	20%	50V
0953	8-729-119-78	TRANSISTOR	2SC2785-HFE					C302	1-162-215-31	CERAMIC	47PF	5%	50V
0954	8-729-119-76	TRANSISTOR	2SA1175-HFE					C303	1-124-907-11	ELECT	10uF	20%	50V
0955	8-729-119-78	TRANSISTOR	2SC2785-HFE					C304	1-124-907-11	ELECT	10uF	20%	50V
0956	8-729-119-76	TRANSISTOR	2SA1175-HFE					C305	1-162-215-31	CERAMIC	47PF	5%	50V
0957	8-729-119-78	TRANSISTOR	2SC2785-HFE					C306	1-162-282-31	CERAMIC	100PF	10%	50V
< RESISTOR >								C307	1-124-927-11	ELECT	4.7uF	20%	100V
< RESISTOR >								C308	1-130-481-00	MYLAR	0.0068uF	5%	50V
R960	1-249-396-11	CARBON	18	5%	1/6W			C309	1-130-480-00	MYLAR	0.0056uF	30%	50V
< RESISTOR >								C310	1-162-290-31	CERAMIC	470PF	10%	50V
R961	1-249-417-11	CARBON	1K	5%	1/4W			C311	1-124-907-11	ELECT	10uF	20%	50V
R962	1-249-437-11	CARBON	47K	5%	1/4W			C312	1-162-292-31	CERAMIC	680PF	10%	50V
R963	1-249-433-11	CARBON	22K	5%	1/4W			C313	1-130-497-00	MYLAR	0.15uF	5%	50V
R964	1-249-429-11	CARBON	10K	5%	1/4W			C314	1-162-284-31	CERAMIC	150PF	10%	50V
R965	1-249-425-11	CARBON	4.7K	5%	1/4W			C315	1-130-487-00	MYLAR	0.022uF	5%	50V
R966	1-249-429-11	CARBON	10K	5%	1/4W			C316	1-162-294-31	CERAMIC	0.001uF	10%	50V
R967	1-249-417-11	CARBON	1K	5%	1/4W			C317	1-124-903-11	ELECT	1uF	20%	50V
R968	1-249-429-11	CARBON	10K	5%	1/4W			C318	1-124-907-11	ELECT	10uF	20%	50V
R969	1-249-426-11	CARBON	5.6K	5%	1/4W			C319	1-124-657-00	ELECT	10uF	20%	50V
R970	1-249-417-11	CARBON	1K	5%	1/4W			C320	1-124-907-11	ELECT	10uF	20%	50V
R971	1-249-426-11	CARBON	5.6K	5%	1/4W			C321	1-124-657-00	ELECT	10uF	20%	50V
< RELAY >								C322	1-130-489-00	MYLAR	0.033uF	5%	50V
< TRANSFORMER >								C323	1-161-377-00	CERAMIC	0.0047uF	30%	16V
< RELAY >								C324	1-130-478-00	MYLAR	0.0039uF	5%	50V
< TRANSFORMER >								C325	1-130-493-00	MYLAR	0.068uF	5%	50V
< RELAY >													
< TRANSFORMER >													
T902	△1-449-993-21	TRANSFORMER, POWER											

* 1-638-285-11 HP BOARD													

< JACK >													
J700	1-568-515-21	JACK (LARGE TYPE) (PHONES)											

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description		Remarks		Ref. No.	Part No.	Description		Remarks	
C341	1-124-905-00	ELECT	3.3uF		50V	C957	1-130-487-00	MYLAR	0.022uF	5%	50V
C342	1-124-905-00	ELECT	3.3uF		50V	C958	1-130-487-00	MYLAR	0.022uF	5%	50V
C351	1-124-907-11	ELECT	10uF	20%	50V	C959	1-124-563-11	ELECT	2200uF	20%	25V
C352	1-162-215-31	CERAMIC	47PF	5%	50V	C960	1-124-557-11	ELECT	1000uF	20%	25V
C353	1-124-907-11	ELECT	10uF	20%	50V	C961	1-124-907-11	ELECT	10uF	20%	50V
C354	1-124-907-11	ELECT	10uF	20%	50V	C962	1-124-907-11	ELECT	10uF	20%	50V
C355	1-162-215-31	CERAMIC	47PF	5%	50V	C963	1-124-477-11	ELECT	47uF	20%	25V
C356	1-162-282-31	CERAMIC	100PF	10%	50V	C964	1-124-477-11	ELECT	47uF	20%	25V
C357	1-124-927-11	ELECT	4.7uF	20%	100V	C965	1-124-477-11	ELECT	47uF	20%	25V
C422	1-124-927-11	ELECT	4.7uF	20%	100V	< CONNECTOR >					
C423	1-124-927-11	ELECT	4.7uF	20%	100V	CN104	* 1-568-836-11	SOCKET, CONNECTOR 17P			
C424	1-124-927-11	ELECT	4.7uF	20%	100V	CN2	1-564-980-11	PIN, CONNECTOR 4P			
C425	1-124-477-11	ELECT	47uF	20%	25V	CN301	* 1-568-826-11	SOCKET, CONNECTOR 7P			
C426	1-124-903-00	ELECT	1uF		50V	CN701	* 1-568-826-11	SOCKET, CONNECTOR 7P			
C501	1-162-283-31	CERAMIC	120PF	10%	50V	CN710	* 1-563-192-11	CONNECTOR (SOCKET) 9P			
C502	1-124-907-11	ELECT	10uF	20%	50V	< DIODE >					
C503	1-162-282-31	CERAMIC	100PF	10%	50V	CN711	* 1-563-192-11	CONNECTOR (SOCKET) 9P			
C504	1-124-925-11	ELECT	2.2uF	20%	100V	D115	8-719-987-63	DIODE	1N4148M		
C505	1-130-480-00	MYLAR	0.0056uF	5%	50V	D703	8-719-815-85	DIODE	1S1585		
C506	1-161-374-11	CERAMIC	0.0015uF	20%	50V	D704	8-719-815-85	DIODE	1S1585		
C507	1-124-902-00	ELECT	0.47uF	20%	50V	D705	8-719-987-63	DIODE	1N4148M		
C508	1-126-233-11	ELECT	22uF	20%	50V	D706	8-719-987-63	DIODE	1N4148M		
C509	1-162-294-31	CERAMIC	0.001uF	10%	50V	D707	8-719-815-85	DIODE	1S1585		
C510	1-162-294-31	CERAMIC	0.001uF	10%	50V	D708	8-719-987-63	DIODE	1N4148M		
C548	1-124-468-00	ELECT	150uF		6.3V	D753	8-719-815-85	DIODE	1S1585		
C551	1-162-283-31	CERAMIC	120PF	10%	50V	D754	8-719-815-85	DIODE	1S1585		
C552	1-124-907-11	ELECT	10uF	20%	50V	D951	8-719-302-38	DIODE	RBV-602-01		
C553	1-162-282-31	CERAMIC	100PF	10%	50V	D952	8-719-312-09	DIODE	RBA-402		
C554	1-124-925-11	ELECT	2.2uF	20%	100V	D953	8-719-200-77	DIODE	10E2N		
C555	1-130-480-00	MYLAR	0.0056uF	5%	50V	D954	8-719-200-77	DIODE	10E2N		
C556	1-161-374-11	CERAMIC	0.0015uF	20%	50V	D955	8-719-200-77	DIODE	10E2N		
C557	1-124-902-00	ELECT	0.47uF	20%	50V	D956	8-719-200-77	DIODE	10E2N		
C558	1-126-233-11	ELECT	22uF	20%	50V	D957	8-719-934-21	DIODE	HZS30-1L		
C701	1-124-927-11	ELECT	4.7uF	20%	100V	< IC >					
C702	1-162-286-31	CERAMIC	220PF	10%	50V	IC301	8-759-634-50	IC	M5218AL		
C706	1-162-209-31	CERAMIC	27PF	5%	50V	IC302	8-759-801-01	IC	LC4966		
C707	1-161-959-00	CERAMIC	22PF	10%	500V	IC303	8-759-823-63	IC	LV1001M		
C708	1-124-477-11	ELECT	47uF	20%	25V	IC304	8-759-821-13	IC	LM3364K-15		
C709	1-161-959-00	CERAMIC	22PF	10%	500V	IC305	8-759-634-50	IC	M5218AL		
C710	1-130-495-00	MYLAR	0.1uF	5%	50V	IC306	8-759-634-50	IC	M5218AL		
C712	1-130-493-00	MYLAR	0.068uF	5%	50V	IC403	8-759-634-50	IC	M5218AL		
C713	1-130-487-00	MYLAR	0.022uF	5%	50V	IC404	8-759-820-11	IC	LC7535		
C714	1-124-477-11	ELECT	47uF	20%	25V	IC501	8-759-634-50	IC	M5218AL		
C715	1-124-443-00	ELECT	100uF	20%	10V	IC502	8-759-805-14	IC	LC7822		
C716	1-124-907-11	ELECT	10uF	20%	50V	IC701	8-759-111-68	IC	uPC1237HA		
C717	1-124-477-11	ELECT	47uF	20%	25V	IC951	8-759-231-53	IC	M5F7805L		
C751	1-124-927-11	ELECT	4.7uF	20%	100V	IC952	8-759-604-33	IC	M5F7812L		
C752	1-162-286-31	CERAMIC	220PF	10%	50V	IC953	8-759-604-51	IC	M5F7912L		
C756	1-162-209-31	CERAMIC	27PF	5%	50V	< JACK >					
C757	1-161-959-00	CERAMIC	22PF	10%	500V	J501	1-580-826-11	JACK, PIN (Lch: PHONO, CD, VIDEO, TAPE, TUNER IN, REC OUT)			
C758	1-124-477-11	ELECT	47uF	20%	25V	J502	1-580-825-11	JACK, PIN (Rch: PHONO, CD, VIDEO, TAPE, TUNER IN, REC OUT)			
C759	1-161-959-00	CERAMIC	22PF	10%	500V						
C760	1-130-495-00	MYLAR	0.1uF	5%	50V						
C762	1-130-493-00	MYLAR	0.068uF	5%	50V						
C951	1-106-367-00	MYLAR	0.01uF	5%	200V						
C952	1-106-367-00	MYLAR	0.01uF	5%	200V						
C953	1-126-358-11	ELECT	10000uF	20%	71V						
C954	1-126-358-11	ELECT	10000uF	20%	71V						
C955	1-124-026-00	ELECT	3300uF	20%	35V						
C956	1-124-026-00	ELECT	3300uF	20%	35V						

MAIN

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
(COIL)											
L701	* 1-420-872-00	COIL, AIR CORE				R314	1-249-423-11	CARBON	3.3K	5%	1/4W
L751	* 1-420-872-00	COIL, AIR CORE				R315	1-249-437-11	CARBON	47K	5%	1/4W
(TRANSISTOR)											
Q105	8-729-119-78	TRANSISTOR	2SC2785-HFE			R316	1-247-903-00	CARBON	1M	5%	1/4W
Q301	8-729-900-36	TRANSISTOR	DTC124ES			R317	1-249-429-11	CARBON	10K	5%	1/4W
Q302	8-729-900-63	TRANSISTOR	DTA124ES			R318	1-247-887-00	CARBON	220K	5%	1/4W
Q303	8-729-900-36	TRANSISTOR	DTC124ES			R319	1-249-429-11	CARBON	10K	5%	1/4W
Q304	8-729-900-63	TRANSISTOR	DTA124ES			R320	1-249-429-11	CARBON	10K	5%	1/4W
Q305	8-729-900-36	TRANSISTOR	DTC124ES			R321	1-249-429-11	CARBON	10K	5%	1/4W
Q306	8-729-900-36	TRANSISTOR	DTC124ES			R322	1-249-437-11	CARBON	47K	5%	1/4W
Q307	8-729-209-15	TRANSISTOR	2SD2012			R323	1-249-437-11	CARBON	47K	5%	1/4W
Q404	8-729-141-30	TRANSISTOR	2SC3623A-LK			R324	1-249-421-11	CARBON	2.2K	5%	1/4W
Q405	8-729-141-30	TRANSISTOR	2SC3623A-LK			R340	1-247-823-00	CARBON	470	5%	1/4W
Q705	8-729-141-06	TRANSISTOR	2SA1142-QPE			R344	1-249-425-11	CARBON	4.7K	5%	1/4W
Q706	8-729-209-15	TRANSISTOR	2SD2012			R345	1-247-857-00	CARBON	12K	5%	1/4W
Q707	8-729-141-05	TRANSISTOR	2SC2682-QPE			R351	1-247-887-00	CARBON	220K	5%	1/4W
Q708	8-729-119-78	TRANSISTOR	2SC2785-HFE			R352	1-247-887-00	CARBON	220K	5%	1/4W
Q709	8-729-119-76	TRANSISTOR	2SA1175-HFE			R353	1-249-429-11	CARBON	10K	5%	1/4W
Q710	8-729-141-46	TRANSISTOR	2SC4431-LK			R354	1-247-895-00	CARBON	470K	5%	1/4W
Q711	8-729-141-37	TRANSISTOR	2SA1684-LK			R355	1-249-429-11	CARBON	10K	5%	1/4W
Q712	8-729-320-96	TRANSISTOR	2SC2921-OPY			R356	1-249-429-11	CARBON	10K	5%	1/4W
Q713	8-729-320-75	TRANSISTOR	2SA1215-0Y			R357	1-249-441-11	CARBON	100K	5%	1/4W
Q714	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			R374	1-249-421-11	CARBON	2.2K	5%	1/4W
Q715	8-729-900-63	TRANSISTOR	DTA124ES			R420	1-249-429-11	CARBON	10K	5%	1/4W
Q716	8-729-119-78	TRANSISTOR	2SC2785-HFE			R421	1-247-887-00	CARBON	220K	5%	1/4W
Q755	8-729-141-06	TRANSISTOR	2SA1142-QPE			R422	1-249-429-11	CARBON	10K	5%	1/4W
Q756	8-729-209-15	TRANSISTOR	2SD2012			R423	1-247-863-11	CARBON	22K	5%	1/4W
Q757	8-729-141-05	TRANSISTOR	2SC2682-QPE			R424	1-249-421-11	CARBON	2.2K	5%	1/4W
Q758	8-729-119-78	TRANSISTOR	2SC2785-HFE			R425	1-249-425-11	CARBON	4.7K	5%	1/4W
Q759	8-729-119-76	TRANSISTOR	2SA1175-HFE			R426	1-249-441-11	CARBON	100K	5%	1/4W
Q760	8-729-141-46	TRANSISTOR	2SC4431-LK			R501	1-249-411-11	CARBON	330	5%	1/4W
Q761	8-729-141-37	TRANSISTOR	2SA1684-LK			R502	1-247-865-11	CARBON	27K	5%	1/4W
Q762	8-729-320-96	TRANSISTOR	2SC2921-OPY			R503	1-249-429-11	CARBON	10K	5%	1/4W
Q763	8-729-320-73	TRANSISTOR	2SA1215-0Y			R504	1-249-417-11	CARBON	1K	5%	1/4W
Q764	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			R505	1-249-417-11	CARBON	1K	5%	1/4W
Q951	8-729-141-03	TRANSISTOR	2SA733-QP			R506	1-249-417-11	CARBON	1K	5%	1/4W
(RESISTOR)											
R139	1-249-417-11	CARBON	1K	5%	1/4W	R507	1-249-437-11	CARBON	47K	5%	1/4W
R140	1-249-393-11	CARBON	10	5%	1/4W	R508	1-249-416-11	CARBON	820	5%	1/4W
R301	1-247-887-00	CARBON	220K	5%	1/4W	R509	1-247-897-11	CARBON	560K	5%	1/4W
R302	1-247-887-00	CARBON	220K	5%	1/4W	R510	1-249-437-11	CARBON	47K	5%	1/4W
R303	1-249-429-11	CARBON	10K	5%	1/4W	R511	1-249-441-11	CARBON	100K	5%	1/4W
R304	1-247-895-00	CARBON	470K	5%	1/4W	R512	1-249-409-11	CARBON	220	5%	1/4W
R305	1-249-429-11	CARBON	10K	5%	1/4W	R513	1-249-425-11	CARBON	4.7K	5%	1/4W
R306	1-249-429-11	CARBON	10K	5%	1/4W	R551	1-249-411-11	CARBON	330	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W	R552	1-247-865-11	CARBON	27K	5%	1/4W
R308	1-249-437-11	CARBON	47K	5%	1/4W	R553	1-249-429-11	CARBON	10K	5%	1/4W
R309	1-249-428-11	CARBON	8.2K	5%	1/4W	R554	1-249-417-11	CARBON	1K	5%	1/4W
R310	1-249-428-11	CARBON	8.2K	5%	1/4W	R555	1-249-417-11	CARBON	1K	5%	1/4W
R311	1-249-431-11	CARBON	15K	5%	1/4W	R556	1-249-417-11	CARBON	1K	5%	1/4W
R312	1-249-428-11	CARBON	8.2K	5%	1/4W	R557	1-249-437-11	CARBON	47K	5%	1/4W
R313	1-249-436-11	CARBON	39K	5%	1/4W	R558	1-249-416-11	CARBON	820	5%	1/4W
						R559	1-247-897-11	CARBON	560K	5%	1/4W
						R560	1-249-437-11	CARBON	47K	5%	1/4W
						R561	1-249-441-11	CARBON	100K	5%	1/4W
						R562	1-249-409-11	CARBON	220	5%	1/4W
						R701	1-249-417-11	CARBON	1K	5%	1/4W
						R712	1-249-435-11	CARBON	33K	5%	1/4W
						R713	▲1-247-692-11	CARBON	22	5%	1/4W
						R714	1-249-417-11	CARBON	1K	5%	1/4W
						R715	1-249-412-11	CARBON	390	5%	1/4W
						R716	▲1-247-692-11	CARBON	22	5%	1/4W

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

MAIN	RX	SP SW	SP TM
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	
R717	△1-247-688-11	CARBON	10 5% 1/4W				〈 CRYSTAL 〉	
R718	△1-247-688-11	CARBON	10 5% 1/4W	X301	1-577-157-11	VIBRATOR, CERAMIC (8MHz)		
R719	△1-247-719-11	CARBON	3.3K 5% 1/4W				*****	
R720	△1-247-713-11	CARBON	1K 5% 1/4W				*****	
R721	△1-247-713-11	CARBON	1K 5% 1/4W				*****	
R722	△1-247-717-11	CARBON	2.2K 5% 1/4W				*****	
R723	△1-247-745-11	CARBON	330 5% 1/2W				*****	
R724	△1-247-688-11	CARBON	10 5% 1/4W				*****	
R725	△1-247-688-11	CARBON	10 5% 1/4W				*****	
R726	△1-214-789-00	RES, METAL PLATE 0.1					〈 CAPACITOR 〉	
R727	△1-214-789-00	RES, METAL PLATE 0.1			C107	1-162-294-31	CERAMIC 0.001uF 10% 50V	
R728	1-249-393-11	CARBON	10 5% 1/4W				〈 CONNECTOR 〉	
R729	1-249-393-11	CARBON	10 5% 1/4W		CN106	* 1-565-295-11	PLUG, CONNECTOR 4P	
R730	1-249-419-11	CARBON	1.5K 5% 1/4W				〈 IC 〉	
R731	1-249-431-11	CARBON	15K 5% 1/4W		IC102	8-749-920-83	IC GP1U52XB	
R732	1-249-437-11	CARBON	47K 5% 1/4W				〈 RESISTOR 〉	
R734	1-249-393-11	CARBON	10 5% 1/4W				〈 SWITCH 〉	
R735	1-249-393-11	CARBON	10 5% 1/4W		R137	1-249-429-11	CARBON 10K 5% 1/4W	
R736	1-249-438-11	CARBON	56K 5% 1/4W		R138	1-249-429-11	CARBON 10K 5% 1/4W	
R737	1-249-433-11	CARBON	22K 5% 1/4W				*****	
R738	1-249-425-11	CARBON	4.7K 5% 1/4W		S117	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)	
R739	1-249-429-11	CARBON	10K 5% 1/4W				*****	
R751	1-249-417-11	CARBON	1K 5% 1/4W				*****	
R762	1-249-435-11	CARBON	33K 5% 1/4W				*****	
R763	△1-247-692-11	CARBON	22 5% 1/4W				*****	
R764	1-249-417-11	CARBON	1K 5% 1/4W				*****	
R765	1-249-412-11	CARBON	390 5% 1/4W				*****	
R766	△1-247-692-11	CARBON	22 5% 1/4W				*****	
R767	△1-247-688-11	CARBON	10 5% 1/4W				*****	
R768	△1-247-688-11	CARBON	10 5% 1/4W				*****	
R769	△1-247-719-11	CARBON	3.3K 5% 1/4W				*****	
R770	△1-247-713-11	CARBON	1K 5% 1/4W				*****	
R771	△1-247-713-11	CARBON	1K 5% 1/4W				*****	
R772	△1-247-717-11	CARBON	2.2K 5% 1/4W		CN706	* 1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
R773	△1-247-745-11	CARBON	330 5% 1/2W		CN708	1-506-786-11	PLUG, CONNECTOR (2.5mm) 12P	
R774	△1-247-688-11	CARBON	10 5% 1/4W				〈 RESISTOR 〉	
R775	△1-247-688-11	CARBON	10 5% 1/4W				〈 CONNECTOR 〉	
R776	△1-214-789-00	RES, METAL PLATE 0.1			R733	△1-216-431-11	METAL OXIDE 560 5% 1W F	
R777	△1-214-789-00	RES, METAL PLATE 0.1			R783	△1-216-431-11	METAL OXIDE 560 5% 1W F	
R778	1-249-393-11	CARBON	10 5% 1/4W				〈 SWITCH 〉	
R779	1-249-393-11	CARBON	10 5% 1/4W		S701	1-572-685-11	SWITCH, ROTARY SLIDE (SPEAKER)	
R780	1-249-419-11	CARBON	1.5K 5% 1/4W				*****	
R781	1-249-431-11	CARBON	15K 5% 1/4W				*****	
R782	1-249-438-11	CARBON	56K 5% 1/4W				*****	
R784	1-249-393-11	CARBON	10 5% 1/4W				*****	
R789	1-249-393-11	CARBON	10 5% 1/4W				*****	
R953	1-247-813-11	CARBON	180 5% 1/4W				*****	
R955	△1-247-704-11	CARBON	220 5% 1/4W				*****	
R956	1-249-426-11	CARBON	5.6K 5% 1/4W				*****	
R957	1-249-385-11	CARBON	2.2 5% 1/6W				*****	
R958	1-249-385-11	CARBON	2.2 5% 1/6W		CN705	* 1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P	
R959	1-249-385-11	CARBON	2.2 5% 1/6W				〈 TERMINAL 〉	
					TM701	1-537-341-11	TERMINAL BOARD (8P SP)	
RY701	1-515-741-11	RELAY					*****	
			〈 CONNECTOR 〉				*****	
TP701	* 1-560-531-00	PIN, CONNECTOR 5P					*****	

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

SURR	SURR SP	VOL	VOL JOINT
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Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
	* 1-638-282-11	SURR BOARD	*****					* 1-638-278-11	VOL BOARD	*****			
< CAPACITOR >													
C601	1-124-927-11	ELECT	4.7uF	20%	100V		CN204	* 1-568-826-11	SOCKET, CONNECTOR 7P				
C602	1-162-282-31	CERAMIC	100PF	10%	50V								
< VARIABLE RESISTOR >													
C603	1-124-477-11	ELECT	47uF	20%	25V		RV407	1-241-413-11	RES, VAR, CARBON 100KX3 (MASTER VOLUME)				
C604	1-130-483-00	MYLAR	0.01uF	5%	50V								
C605	1-124-907-11	ELECT	10uF	20%	50V								
C606	1-124-907-11	ELECT	10uF	20%	50V								
C607	1-136-171-00	MYLAR	0.33uF	5%	50V								
C609	1-130-489-00	MYLAR	0.033uF	5%	50V								
< CONNECTOR >													
CN601	* 1-506-710-11	PLUG, CONNECTOR (2.5MM) 8P											
CN602	* 1-565-835-11	SOCKET, CONNECTOR 3P											
< DIODE >													
D601	8-719-987-63	DIODE	1N4148M				C418	1-162-306-11	CERAMIC	0.01uF	20%	16V	
D602	8-719-987-63	DIODE	1N4148M				C419	1-124-925-11	ELECT	2.2uF	20%	100V	
D603	8-719-987-63	DIODE	1N4148M				C420	1-124-925-11	ELECT	2.2uF	20%	100V	
							C421	1-162-306-11	CERAMIC	0.01uF	20%	16V	
< IC >													
IC601	8-759-502-32	IC	SI-18752N				CN403	1-569-132-11		7P			
< TRANSISTOR >													
Q601	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA				IC402	8-759-820-62	IC	LB1639			
< RESISTOR >													
R601	1-249-417-11	CARBON	1K	5%	1/4W		R416	1-247-813-11	CARBON	180	5%	1/4W	
R602	1-249-437-11	CARBON	47K	5%	1/4W		R417	1-249-425-11	CARBON	4.7K	5%	1/4W	
R603	1-247-817-11	CARBON	270	5%	1/4W		R418	1-249-425-11	CARBON	4.7K	5%	1/4W	
R604	1-249-437-11	CARBON	47K	5%	1/4W								
R605	△1-217-151-00	RES, METAL PLATE	0.22										
MISCELLANEOUS													
R606	1-247-688-11	CARBON	10	5%	1/4W		5	1-590-486-11	WIRE, FLAT TYPE (7 CORE)				
R607	1-247-815-11	CARBON	220K	5%	1/4W		6	1-590-487-11	WIRE, FLAT TYPE (17 CORE)				
R608	1-247-853-11	CARBON	8.2K	5%	1/4W		13	1-590-538-11	WIRE, FLAT TYPE (7 CORE)				
R609	1-247-688-11	CARBON	10	5%	1/4W		14	1-590-485-11	WIRE, FLAT TYPE (7 CORE)				
R610	1-249-437-11	CARBON	47K	5%	1/4W		CNP901	△1-551-478-00	CORD, POWER				
R611	1-247-817-11	CARBON	270	5%	1/4W		T901	△1-450-370-11	TRANSFORMER, POWER				
< RELAY >													
RY601	1-515-790-11	RELAY (REAR SP)											

* 1-638-281-11 SURR SP BOARD													

< CONNECTOR >													
CN603	* 1-560-666-00	PIN, CONNECTOR 3P											
< TERMINAL >													
TM601	* 1-537-265-11	TERMINAL BOARD (REAR SPEAKER)											

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
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HARDWARE LIST

# 1	7-621-849-00	SCREW, TAPPING	
# 2	7-682-548-09	SCREW +B 3X8	
# 3	7-682-949-01	SCREW +PSW 3X10	
# 5	7-682-950-01	SCREW +PSW 3X12	
# 6	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
# 7	7-682-548-04	SCREW +BVTT 3X8 (S)	
# 8	7-682-561-04	SCREW +BVTT 4X8 (S)	

SONY. SERVICE MANUAL

US Model

CORRECTION-1

Correct your service manual as shown below.

Correct the part No. as shown below

Page	INCORRECT	CORRECT	<u>Description</u>
	<u>Part No.</u>	<u>Part No.</u>	
32	A-4341-682-A	* A-4341-678-A	MAIN BOARD, COMPLETE

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.